



DEPARTMENT OF THE NAVY  
HEADQUARTERS UNITED STATES MARINE CORPS  
WASHINGTON, DC 20380-0001

MCO 1510.87B  
C 461  
12 SEP 97

MARINE CORPS ORDER 1510.87B

From: Commandant of the Marine Corps  
To: Distribution List

Subj: INDIVIDUAL TRAINING STANDARDS (ITS) SYSTEM FOR MARINE CORPS SPECIAL SKILLS VOLUME - 1

Ref: (a) MCO 1553.1B  
(b) MCO 1553.2  
(c) MCO 1553.3

Encl: (1) Description of an Individual Training Standard  
(2) Management of Individual Training Standards  
(3) Summary/Index of Individual Training Standards  
(4) Common Individual Training Standards  
(5) Training Support  
(6) Individual Training Standards

1. Purpose. To publish revised ITS at enclosures (1) through (6) for Marine Corps Special Skills - Volume 1.

2. Cancellation. MCO 1510.87A.

3. Background

a. The references establish the system used to publish all training standards, provide policy, and assign training responsibilities, especially as applied to the Systems Approach to Training (SAT).

b. ITS8 establish the training requirements for all Marines in the same occupational field (OccFld), Military Occupational Specialty (MOS), or billet. They provide a foundation upon which unit commanders and school directors build training packages for individual Marines as part of unit training plans or formal courses of instruction.

c. ITSs represent the skills needed by individual Marines that contribute to the unit mission as expressed in the Mission Performance Standards. Changes to doctrine or force structure or the introduction of new weapons or equipment may necessitate revision of this Order.

4. Summary of Revision. This edition encompasses numerous changes to ITS, training setting, sustainment factors, and grade to standard entries. Changes also include deletion/addition of tasks and references. Additionally, MOS 8111 (Small Boat Coxswain) and Special Skills (SS) SS14 (Maritime Small Boat Navigator) have been deleted from this volume and moved to MCO 1510.104A, Individual Training Standards (ITS) System for Marine Corps Special Skills - Volume 4. This ITS Order was developed using the Marine Corps Automated Instructional Management System (MCAIMS Plus) which has resulted in modifications to the content and appearance of the Order. In general, all ITS

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information is linked to tasks. Appendix D to Enclosure (5) lists references with associated tasks. Enclosure (6) now contains information on initial setting, and where applicable, Marine Corps Institute (MCI) materials, Ammunition, and training materiel.

5. Information. ITSS are used by unit commanders and school directors to design, develop, conduct, and evaluate the individual training of Marines. Unit commanders are responsible for the sustainment of all individual tasks that have been deemed, through analysis, to support the unit's Mission Essential Task List (METL). Unit commanders can, therefore, use the tasks contained in this Order as the basis of individual training through Managed On-the-job Training (MOJT), instruction in unit level schools, or incorporation in their training plans. School directors will derive Terminal Learning Objectives (TLO) and Enabling Learning Objectives (ELO) from the tasks, conditions, standards, and performance steps of each associated ITS. Task lists reported by formal schools on Course Descriptive Data (CDD) submissions will consist of tasks contained in this Order that are designated for training at the appropriate level in the formal school.

6. Action

a. Commanding General, Marine Corps Combat Development Command (CG MCCDC)

(1) Ensure that all schools use this Order to train personnel to the standards required by grade and MOS.

(2) Ensure that the MCI and the Training and Audiovisual Support Centers (TAVSC) provide standardized job aids and other training support requirements to facilitate training in units.

(3) Review, revise, and manage the upkeep of this Order in coordination with Operating Force and Supporting Establishment commanders and MOS/OccFld Sponsors.

(4) Ensure the Combat Development Process identifies the impact on training, by OS and ITS, of all new equipment.

(5) Ensure coordination with the Commander, Marine Corps Systems Command (COMMARCORSSYSCOM) to integrate the acquisition of new equipment into formal school training per the published ITSS.

b. Commanding Generals of the Marine Forces and Supporting Establishment Commands and Commanders of Separate Organizations not Commanded by a General Officer

(1) Use this Order as the basis for individual training.

(2) Conduct MOJT programs and/or instruction in unit level schools to satisfy initial, sustainment, and refresher training requirements in so far as the tasks support unit mission requirements.

7. Submission of Recommendations and Requirements. Recommendations concerning the content of this Order are invited. Submit recommendations for additions, deletions, or modifications to Commanding General, Marine Corps Combat Development Command (C 461) via the chain of command.

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8. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

  
K. T. HOLCOMB  
By direction

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DESCRIPTION OF AN INDIVIDUAL TRAINING STANDARD

1. ITS Designator. Each ITS has a unique three-part identifier that represents the specific task, the duty area under which that task is included, and the MOS (or billet) with which it is associated. Each part is separated by periods. An example of an ITS Designator is 0311.02.08.

a. The first four positions ("0311" in the example above) represent the MOS or billet. For any ITS associated with an official MOS, the four digits must be identical to those assigned to the MOS in MCO P1200.7 (MOS Manual).

b. The middle two positions ("02" in the example above) represent the duty or functional area. Duty areas within a given MOS are assigned consecutive ascending Arabic numerals. Duty areas 1 through 9 are always preceded by a leading zero to allow for proper sorting. In the example above, "02" represents the second duty area under MOS 0311.

c. The last two positions ("08" in the example above) represent a specific task. Tasks within a specific duty or functional area are assigned consecutive ascending Arabic numerals. Tasks 1 through 9 are always preceded by a leading zero to allow for proper sorting. In the example above, "08" represents the eighth task within the second duty area under MOS 0311.

2. ITS Components. There are six basic components of an ITS, five of which are mandatory:

a. Task. The task describes a specific and necessary behavior expected of a Marine in a particular MOS or job. It is a clearly stated, performance-oriented action requiring a learned skill.

b. Condition(s). This portion of the ITS describes the equipment, manuals, assistance/supervision, special physical demands, environmental conditions, and location affecting a Marine's performance of the task under real-world circumstances.

c. Standard(s). This portion of the ITS describes the level of proficiency to which the individual must perform the task.

d. Performance Steps. Collectively, the performance steps represent the logical sequence of actions required of the Marine to perform the task to standard. These actions are typically detailed in the references.

e. References. References are doctrinal publications, technical manuals, and other publications upon which the ITS and its performance steps are based. They should be readily available and provide detail to the procedures that are only summarized in the performance steps.

f. Administrative Instructions (Optional). Administrative instructions provide the trainer/instructor with special required or recommended circumstances, including safety precautions, relating to the training or execution of the task. These instructions may also clarify the meaning of the task.

3. ITS Training

a. Initial Training Setting. All ITSS are assigned an initial Training Setting

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that includes a specific location for initial instruction (Formal School or MOJT), level of training required at that location (Standard or Preliminary), a sustainment factor (number of months between evaluation or retraining to maintain the proficiency required by the standard), and a "Required By" rank (the lowest rank at which task proficiency is required).

b. Training Materiel (Optional). Training materiel includes all training devices, simulators, aids, equipment, and materials (except ammunition and Marine Corps Institute (MCI) publications) required or recommended to properly train the task under the specified conditions and to the specified standard.

c. Ammunition (Optional). This section includes any ammunition, explosives, and/or pyrotechnics required for proper training of the ITS.

d. Current MCI(s) (Optional). This section includes a list of any currently available MCI publications designed to provide training related to this task.

ENCLOSURE (1)

MANAGEMENT OF INDIVIDUAL TRAINING STANDARDS

1. ITS Use

a. ITSs form the basis for all individual training in formal schools and units. They are written for all MOSs in order to specify the critical skills required by units of their individual Marines in support of the unit's combat missions as defined in the unit's Mission Essential Task List (METL).

b. Formal school directors are responsible for reviewing all ITSs marked for initial training at the formal school. They must conduct courses of instruction on those ITSs appropriate for their student populations in terms of grade or rank. The task portion of each ITS taught in a given course must appear in the Task List (Item 24) of the CDD for that course. In accordance with SAT, a Program of Instruction (POI) must also be developed for the course.

c. ITSs provide measures of performance that can be used by unit commanders to diagnose individual deficiencies and design training. Noted deficiencies should be scheduled for remediation on training plans or through MOJT, as appropriate.

d. A Marine should continue to receive instruction on ITSs that support his unit's METL. Individual training cannot cease upon graduation from a formal school because formal schools cannot prepare every Marine to serve in every billet. Individuals should be given opportunities in the unit to gain experience and responsibility as quickly as possible.

2. ITS Maintenance

a. A relationship exists between ITSs and the threat to Marine forces. Changes in the threat often trigger corresponding changes in our weapons, equipment, or doctrine, which then necessitate producing new or updated training standards. Such action requires a team effort on the part of the operating forces, the formal schools, and staff agencies at both Headquarters, U.S. Marine Corps and the Marine Corps Combat Development Command (MCCDC).

b. ITSs are ultimately validated by unit commanders and school directors. Records of Proceedings (ROP) resulting from Course Content Review Boards (CCRB) conducted by formal schools are particularly well suited for recommending revisions. The ROP should contain a justification for each proposed addition, deletion, or change and should accompany any request to obtain authority to depart from the currently published ITSs. Unit commanders can recommend changes through participation in a school's CCRB or directly via the chain of command. Unless significant changes warrant earlier action, ITS orders are revised and republished on a 4-year cycle.

c. ITS management is a dynamic process involving user maintenance as the key to refining standards to best serve unit missions. ITS users should evaluate whether ITSs support or fail to support an MOS, and ITS components should be examined for realism and pertinence. Users are encouraged to submit recommended changes to published ITSs through the chain of command.

ENCLOSURE (2)

SUMMARY/INDEX OF INDIVIDUAL TRAINING STANDARDS

1. General. This enclosure is a summary listing of all ITS tasks grouped by MOS and Duty Area.
2. Format. The columns are as follows:
  - a. TASK. ITS Designator.
  - b. TITLE. ITS Task Title.
  - c. FS. Formal School. A mark appears in this column when the Formal School is designated as the initial training setting. An "S" indicates the task is taught to "standard" at the formal school. A "P" indicates that the formal school provides only "preliminary" instruction and it is up to the unit to provide follow-on MOJT instruction to teach the task to standard.
  - d. MOJT. Managed On-The-Job Training. An "S" appears in this column when MOJT is designated-as the initial training setting. Instruction is always to "standard."
  - e. MCI. Current MCI Publication(s). An "X" in this column indicates that at least one MCI publication addresses this task. Consult enclosure (6) for details.
  - f. SUS. Sustainment Training Period. An entry in this column represents the number o-fmonths within which the unit is expected to train or retrain this task to standard provided the task supports the unit's METL.
  - g. REQ BY. Required By. An entry in this column depicts the lowest rank required to demonstrate proficiency in this task.
  - h. PAGE. Page Number. This column lists the number of the page in enclosure (6) that contains detailed information concerning this task.

SEQ	TASK	TITLE	FS	MOJT	MCI	SUS	REQ	BY	PAGE
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MOS SS11, TACTICAL ROPE TECHNICIAN

DUTY AREA 01 - BASIC ROPE SUSPENSION SKILLS

1)	SS11.01.01	CONDUCT KNOT TYING DRILL	S	2	Pvt	6-A-1
2)	SS11.01.02	MAINTAIN MOUNTAINEERING EQUIPMENT	S	2	Pvt	6-A-3
3)	SS11.01.03	CONDUCT RAPPELLING	S	2	Pvt	6-A-4
4)	SS11.01.04	EMPLOY A SUSPENSION TRAVERSE	S	2	Pvt	6-A-6
5)	SS11.01.05	EMPLOY A ONE ROPE BRIDGE	S	2	Pvt	6-A-6
6)	SS11.01.06	EMPLOY A VERTICAL HAULING LINE SYSTEM	S	2	Pvt	6-A-8
7)	SS11.01.07	CROSS TACTICAL LANES	S	2	Pvt	6-A-10

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SEQ	TASK	TITLE	FS	MOJT	MCI	SUS	REQ	BY	PAGE
<u>DUTY AREA 02 - ASSAULT CLIMBING</u>									

1)	SS11.02.01	BALANCE CLIMB	S		2	Pvt		6-A-12	
2)	SS11.02.02	TWO-PARTY CLIMB	S		2	Pvt		6-A-13	
3)	SS11.02.03	CLIMB USING AN ICE AXE	S		2	Pvt		6-A-14	
4)	SS11.02.04	CLIMB USING CRAMPONS	S		2	Pvt		6-A-16	
5)	SS11.02.05	CONDUCT A MEDICAL EVACUATION (MEDEVAC) OVER VERTICAL TERRAIN	S		2	Pvt		6-A-18	
6)	SS11.02.06	CONDUCT A ROUGH TERRAIN MEDICAL EVACUATION (MEDEVAC)	S		2	Pvt		6-A-19	
7)	SS11.02.07	CONSTRUCT TACTICAL LANES	S		2	Pvt		6-A-20	
8)	SS11.02.08	CONDUCT DIRECT AID CLIMB	S		2	Pvt		6-A-21	
9)	SS11.02.09	CONSTRUCT IMPROVED ANCHORS IN AN URBAN AREA	S		2	Pvt		6-A-23	
10)	SS11.02.10	EMPLOY IMPROVISED CLIMBING TECHNIQUES IN AN URBAN AREA	S		2	Pvt		6-A-24	
11)	SS11.02.11	EMPLOY A TOP ROPE	S		2	Pvt		6-A-25	
12)	SS11.02.12	EXTRICATE PERSONNEL FROM A TREE	S		2	Pvt		6-A-26	
13)	SS11.02.13	ORGANIZE A CLIFF ASSAULT	S		2	Cpl		6-A-28	
14)	SS11.02.14	CONDUCT TACTICAL RAPPELLING	S		2	Pvt		6-A-30	
15)	SS11.02.15	CONDUCT URBAN RAPPELLING TECHNIQUES	S		2	Pvt		6-A-30	
16)	SS11.02.16	RIG A RAISING/LOWERING SYSTEM	S		2	Pvt		6-A-31	
17)	SS11.02.17	USE A GRAPPLING HOOK	S		2	Pvt		6-A-31	
18)	SS11.02.18	CONDUCT CASUALTY EXTRACTION/ EVACUATIONS	S		2	Pvt		6-A-32	
19)	SS11.02.19	ASCEND A STRUCTURE	S		2	Pvt		6-A-33	
20)	SS11.02.20	UTILIZE PIPE CLIMBING TECHNIQUES	S		2	Pvt		6-A-34	
21)	SS11.02.21	UTILIZE CABLE LADDERS	S		2	Pvt		6-A-34	

DUTY AREA 03 - HELICOPTER ROPE SUSPENSION SKILLS

1)	SS11.03.07	CONDUCT HELICOPTER FAST ROPE OPERATIONS	S		2	Cpl		6-A-40	
2)	SS11.03.01	MAINTAIN THE HELICOPTER ROPE SUSPENSION TRAINING (HRST) KIT	S		2	Cpl		6-A-36	
3)	SS11.03.02	RIG A STATIC TOWER FOR HRST OPERATIONS	S		2	Cpl		6-A-36	
4)	SS11.03.04	RIG A HELICOPTER FOR RAPPELLING	S		2	Cpl		6-A-37	
5)	SS11.03.05	CONDUCT HELICOPTER RAPPELLING	S		2	Cpl		6-A-38	
6)	SS11.03.06	RIG A HELICOPTER FOR FAST ROPE	S		2	Cpl		6-A-39	
7)	SS11.03.08	RIG A HELICOPTER FOR SPECIAL INSERTION EXTRACTION (SPIE)	S		2	Cpl		6-A-40	
8)	SS11.03.09	CONDUCT SPIE OPERATIONS	S		2	Cpl		6-A-41	
9)	SS11.03.10	CONDUCT A HELICOPTER ROPE SUSPENSION TRAINING (HRST) BRIEF	S		2	Cpl		6-A-42	
10)	SS11.03.11	CONDUCT TACTICAL SPIE	S		2	Cpl		6-A-43	
11)	SS11.03.12	CONDUCT A SEAT HIP RAPPEL	S		2	Cpl		6-A-43	
12)	SS11.03.13	CONDUCT A FAST ROPE DESCENT	S		2	Cpl		6-A-44	

MOS SS12. MILITARY SCOUT SKIER

ENCLOSURE (3)



SEQ	TASK	TITLE	FS	MOJT	MCI	SUS	REQ	BY	PAGE
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DUTY AREA 01 - BASIC OVER SNOW MOBILITY SKILLS

1)	SS12.01.01	MAINTAIN OVER-THE-SNOW EQUIPMENT	S		2	Sgt		6-B-1	
2)	SS12.01.02	CONDUCT SKI TRAINING	S		2	Sgt		6-B-2	

DUTY AREA 02 - ROUTE PLANNING

1)	SS12.02.01	SELECT A SKI ROUTE	S		2	Sgt		6-B-4	
2)	SS12.02.02	LEAD A TRAIL BREAKING PARTY	S		2	Sgt		6-B-5	
3)	SS12.02.03	CROSS A FROZEN WATER OBSTACLE	S		2	Sgt		6-B-6	

DUTY AREA 03 - AVALANCHE OPERATIONS

1)	SS12.03.01	DETERMINE AVALANCHE HAZARD	S		2	Sgt		6-B-8	
2)	SS12.03.02	CROSS AVALANCHE PRONE SLOPES	S		2	Sgt		6-B-9	
3)	SS12.03.03	CONDUCT AVALANCHE SEARCH AND RESCUE TECHNIQUES	S		2	Sgt		6-B-10	

MOS SS13, SCOUT SWIMMER

DUTY AREA 01 - BASIC SCOUT SWIMMER SKILLS

1)	SS13.01.01	MAINTAIN SCOUT SWIMMER EQUIPMENT	S		6	PFC		6-C-1	
2)	SS13.01.02	WATERPROOF EQUIPMENT	S		6	PFC		6-C-2	
3)	SS13.01.03	PERFORM INSERTION/EXTRACTION TECHNIQUES	S		6	PFC		6-C-3	
4)	SS13.01.04	FUNCTION AS A MEMBER OF A COMBAT RUBBER RECONNAISSANCE CRAFT (CRRC) BOAT TEAM	S		6	PFC		6-C-4	

DUTY AREA 02 - SCOUT SWIMMER OPERATIONS

1)	SS13.02.01	LEAD A SCOUT SWIMMER TEAM	S		6	PFC		6-C-6	
2)	SS13.02.02	CONDUCT BEACH SURVEY	S		6	PFC		6-C-7	
3)	SS13.02.03	CONDUCT SURF OBSERVATION	S		6	PFC		6-C-8	
4)	SS13.02.04	PLAN A SCOUT SWIMMER MISSION	S		6	PFC		6-C-9	

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COMMON INDIVIDUAL TRAINING STANDARDS

DOES NOT APPLY TO THIS ORDER.

ENCLOSURE (4)

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TRAINING SUPPORT

1. This enclosure summarizes four categories of training support by ITS for the entire OccFld:

Appendix A: Training Materiel

Appendix B: Current MCIs

Appendix C: Ammunition, Explosives, and Pyrotechnics

Appendix D: References

2. If support identified in any appendix is not applicable to this OccFld, the appendix will include a statement to that effect.

ENCLOSURE (5)

TRAINING MATERIEL

1. General. Training materiel includes all training devices, simulators, aids, equipment, and materials (except ammunition and MCIs) required or recommended to properly train a task under the specified conditions and to the specified standard.

2. Format. The columns are as follows:

a. MATERIEL. This column summarizes all training material used in support of at least one ITS task in this OccFld.

b. TASK NUMBERS. A listing of all ITS tasks supported by the corresponding training support item in the Material column. An asterisk (\*) precedes any task for which the training support item is mandatory for execution of the task.

MATERIEL	TASK NUMBERS			
.5 mm Mechanical Pencil	*SS13.02.03	SS13.02.04		
10' Static Rappeling Tower	SS11.01.01	SS11.01.02	SS11.01.03	SS11.01.05
	SS11.01.06	SS11.01.07	SS11.02.02	SS11.02.03
	SS11.02.04	SS11.02.05	SS11.02.06	SS11.02.07
	SS11.02.08	SS11.02.09	SS11.02.10	SS11.02.11
	SS11.02.12	SS11.02.13		
120' Line	SS11.01.01	*SS11.01.02	SS11.01.03	SS11.01.05
	SS11.01.06	SS11.01.07	SS11.02.02	SS11.02.03
	SS11.02.04	SS11.02.05	SS11.02.06	SS11.02.07
	SS11.02.08	SS11.02.09	SS11.02.10	SS11.02.11
	SS11.02.12	SS11.02.13	SS12.02.01	SS12.02.02
	SS12.02.03	SS12.03.01	SS12.03.02	SS12.03.03
550 Parachute Cord	SS11.01.01	*SS11.01.02	SS11.01.03	SS11.01.05
	SS11.01.06	SS11.01.07	SS11.02.02	SS11.02.03
	SS11.02.04	SS11.02.05	SS11.02.06	SS11.02.07
	SS11.02.08	SS11.02.09	SS11.02.10	SS11.02.11
	SS11.02.12	SS11.02.13	SS12.01.02	SS12.02.01
	SS12.02.02	SS12.02.03	SS12.03.01	SS12.03.02
	SS12.03.03			
90' Static Rappel Tower	SS11.01.01	SS11.01.02	SS11.01.03	SS11.01.05
	SS11.01.06	SS11.01.07	SS11.02.02	SS11.02.03
	SS11.02.04	SS11.02.05	SS11.02.06	SS11.02.07
	SS11.02.08	SS11.02.09	SS11.02.10	SS11.02.11
	SS11.02.12	SS11.02.13		
Chart No. 1, Nautical Chart Symbols, Abbreviations, and Terms	SS13.02.04			
Chemical Light	*SS13.01.01	*SS13.01.02	*SS13.01.03	*SS13.01.04
(Chemlite)/Distress Light	*SS13.02.01	*SS13.02.02	*SS13.02.03	*SS13.02.04
Combat Rubber Reconnaissance Craft(s) with Engine, SL-3 complete	*SS13.01.04	*SS13.02.01		

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MATERIEL	TASK NUMBERS			
Communication Equipment	SS11.01.01	SS11.01.02	SS11.01.07	SS11.02.02
	SS11.02.06	SS11.02.07	SS11.02.11	SS11.02.12
	*SS11.03.05	*SS11.03.06	*SS11.03.10	*SS11.03.11
	SS12.02.02	SS12.02.03	*SS13.02.01	*SS13.02.02
	SS11.01.03	SS11.01.05	SS11.01.06	SS11.02.03
	SS11.02.04	SS11.02.05	SS11.02.08	SS11.02.09
	SS11.02.10	SS11.02.13	*SS11.03.02	*SS11.03.04
	*SS11.03.07	*SS11.03.08	*SS11.03.09	SS11.03.12
	*SS11.03.13	SS12.02.01	SS12.03.01	SS12.03.02
	SS12.03.03	*SS13.02.03		
Crampon Adjustment Kit	SS11.01.01	*SS11.01.02	SS11.01.03	SS11.01.05
	SS11-01-06	SS11.01.07	SS11.02.02	SS11.02.03
	SS11.02.04	SS11.02.05	SS11.02.06	SS11.02.07
	SS11.02.08	SS11.02.09	SS11.02.10	SS11.02.11
	SS11.02.12	SS11.02.13	SS12.01.01	
Crampon(s)	SS11.01.01	*SS11.01.02	SS11.01.03	SS11.01.05
	SS11.01.06	SS11.01.07	SS11.02.02	SS11.02.03
	SS11.02.04	SS11.02.05	SS11.02.06	SS11.02.07
	SS11.02.08	SS11.02.09	SS11.02.10	SS11.02.11
	SS11.02.12	SS11.02.13	SS12.01.01	
Dive Knife	*SS13.01.01	*SS13.01.02	*SS13.02.03	*SS13.02.04
	*SS13.02.01	*SS13.02.02	*SS13.02.03	
Footfangs	SS11.01.01	SS11.01.02	SS11.01.03	SS11.01.05
	SS11.01.06	SS11.01.07	SS11.02.02	SS11.02.03
	SS11.02.04	SS11.02.05	SS11.02.06	SS11.02.07
	SS11.02.08	SS11.02.09	SS11.02.10	SS11.02.11
	SS11.02.12	SS11.02.13	SS12.01.01	
Helicopter Rope Suspension Training (HRST) Kit	SS11.01.01	*SS11.01.02	SS11.01.03	SS11.01.05
	SS11.01.06	SS11.10.07	SS11.02.02	SS11.02.03
	SS11.02.04	SS11.02.05	SS11.02.06	SS11.02.07
	SS11.02.08	SS11.02.09	SS11.02.10	SS11.02.11
	SS11.02.12	SS11.02.13	*SS11.03.01	*SS11.03.02
	*SS11.03.04	*SS11.03.05	*SS11.03.06	*SS11.03.07
	*SS11.03.08	*SS11.03.09	*SS11.03.10	*SS11.03.11
	*SS11.03.12	*SS11.03.13		
Ice Axe	SS11.01.01	SS11.01.02	SS11.01.03	SS11.01.05
	SS11.01.06	SS11.01.07	SS11.02.02	SS11.02.03
	SS11.02.04	SS11.02.05	SS11.02.06	SS11.02.07
	SS11.02.08	SS11.02.09	SS11.02.10	SS11.02.11
	SS11.02.12	SS11.02.13	SS12.01.01	SS12.01.03
	SS12.03.01	SS12.03.02	SS12.03.03	
Individual 782 Gear	*SS13.01.02	*SS13.02.01	*SS13.02.03	
Lensatic Compass	SS12.02.01	SS12.02.02	SS12.02.03	SS12.03.01
	SS12.03.02	*SS12.03.03	*SS13.02.01	*SS13.02.04
Litter	SS12.01.02	SS12.03.03		
Locking Carabiner(s)	SS11.01.01	*SS11.01.02	*SS11.01.03	SS11.01.05
	SS11.01.06	SS11.01.07	SS11.02.02	SS11.02.03
	<del>SS11.02.04</del>	<del>SS11.02.05</del>	<del>SS11.02.06</del>	<del>SS11.02.07</del>
	SS11.02.08	SS11.02.09	SS11.02.10	SS11.02.11
	SS11.02.12	SS11.02.13	SS12.01.01	SS12.02.02
	SS12.03.01	SS12.03.02	SS12.03.03	

Appendix A to  
ENCLOSURE (5)

MATERIEL	TASK NUMBERS			
Map(s) (Topographic)	SS12.02.01 SS12.03.02	SS12.02.02 SS12.03.03	SS12.02.03	SS12.03.01
Marine Assault Climber's Kit (MACK)	SS11.01.01 SS11.01.06 SS11.02.04 SS11.02.08 SS11.02.12	*SS11.01.02 SS11.01.07 SS11.02.05 SS11.02.09 SS11.02.13	*SS11.01.03 SS11.02.02 SS11.02.06 SS11.02.10	SS11.01.05 SS11.02.03 SS11.02.07 SS11.02.11
Marine Corps Helicopters (CH-46, CH-53, UH1N)	SS11.01.01 SS11.01.06 SS11.02.04 SS11.02.08 SS11.02.12 *SS11.03.06 *SS11.03.10	SS11.01.02 SS11.01.07 SS11.02.05 SS11.02.09 SS11.02.13 *SS11.03.07 *SS11.03.11	SS11.01.03 SS11.02.02 SS11.02.06 SS11.02.10 *SS11.03.04 *SS11.03.08 *SS11.03.12	SS11.01.05 SS11.02.03 SS11.02.07 SS11.02.11 *SS11.03.05 *SS11.03.09 *SS11.03.13
Military Skis and Poles	SS12.01.01 SS12.02.03	SS12.01.02 SS12.03.01	SS12.02.01 SS12.03.02	SS12.02.02 SS12.03.03
Mock Helicopter Tower	SS11.01.01 SS11.01.06 SS11.02.04 SS11.02.08 SS11.02.12	SS11.01.02 SS11.01.07 SS11.02.05 SS11.02.09 SS11.02.13	SS11.01.03 SS11.02.02 SS11.02.06 SS11.02.10	SS11.01.05 SS11.02.03 SS11.02.07 SS11.02.11
Nautical Charts	*SS13.02.04			
Pair of Dive Fins	*SS13.01.01 *SS13.01.02 *SS13.01.03 *SS13.01.04 *SS13.02.01 *SS13.02.02 *SS13.02.03			
Protractor	*SS13.02.04			
Radio, Callsigns and Frequencies	*SS13.01.02			
Rappelling Ropes	*SS11.03.01			
Set of Dive Boots	*SS13.01.01 *SS13.01.02 *SS13.01.03 *SS13.01.04 *SS13.02.01 *SS13.02.02 *SS13.02.03			
Signaling Device	*SS13.02.01			
Sling Rope(s)	SS11.01.01 SS11.01.06 SS11.02.04 SS11.02.08 SS11.02.12 SS12.02.03	*SS11.01.02 SS11.01.07 SS11.02.05 SS11.02.09 SS11.02.13 SS12.03.01	*SS11.01.03 SS11.02.02 SS11.02.06 SS11.02.10 SS12.02.01 SS12.03.02	SS11.01.05 SS11.02.03 SS11.02.07 SS11.02.11 SS12.02.02 SS12.03.03
Snowshoes	SS12.01.01	SS12.03.03		
Static Rappelling Tower	*SS11.03.02 *SS11.03.12			
Surf Observation and Report Format	*SS13.02.03 SS13.02.04			

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MATERIEL	TASK NUMBERS
T/O Weapon (M16A2, M-9, M249, etc.)	*SS13.01.02 *SS13.01.03 *SS13.02.01 *SS13.02.02 *SS13.02.03
Tactical Radio(s) with or without Encryption	*SS13.01.02
Tactical Radio, SL-3 complete	*SS13.01.02 *SS13.01.04 *SS13.02.01 *SS13.02.02 *SS13.02.03
Underwater Demolitions Team (UDT) Vast with C02 Cartridge	*SS13.01.01 *SS13.01.02 *SS13.01.03 *SS13.01.04 *SS13.02.01 *SS13.02.02 *SS13.02.03
Wetsuit	*SS13.01.01 *SS13.01.02 *SS13.01.03 *SS13.01.04 *SS13.02.01 *SS13.02.02 SS13.02.03
Whistle	*SS13.01.01 *SS13.01.02 *SS13.01.03 *SS13.01.04 *SS13.02.01 *SS13.02.02 *SS13.02.03

Appendix A to  
ENCLOSURE (5)

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CURRENT MCI PUBLICATIONS

DOES NOT APPLY TO THIS ORDER.

5-B-1

Appendix B to  
ENCLOSURE (5)



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AMMUNITION, EXPLOSIVES, AND PYROTECHNICS

DOES NOT APPLY TO THIS ORDER.

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Appendix C to  
ENCLOSURE (5)

5-C-1

REFERENCES

1. General. References are doctrinal publications, technical manuals, and other publications upon which an ITS and its performance steps are based. They should be readily available and provide the detailed procedures for accomplishing the task. This section includes a list of all reference publications associated with any task in this OccFld.

2. Format. The columns are as follows:

a. REFERENCES. This column summarizes all references associated with at least one ITS task in this OccFld.

b. TASK NUMBERS. A listing of all ITS tasks to which the corresponding reference is associated.

<u>REFERENCES</u>	<u>TASK NUMBERS</u>
Advanced Rock Craft, Royal Robbins	SS11.02.19
American Practical Navigator, Volumes I and II	SS13.02.04
Avalanche Handbook, U.S. Forest Service, 1972	SS12.03.01 SS12.03.02 SS12.03.03
Basic Rock Craft, Royal Robbins, La Siesta Press, Glendale, CA, 1971	SS11.01.01 SS11.02.01 SS11.02.02
COMRAVSURFPAC/LANT INST 3840.1B, Joint Surf Manual	SS13.02.02 SS13.02.03
Cross Country: Skiing Right, William Hull	SS12.01.02
Dutton's Navigation and Piloting, 14th Edition	SS13.02.04
Expeditionary Nordic Ski Instruction Manual	SS12.01.02
Manual of Military Mountaineering, British Royal Marines, 1982	SS11.02.01
Manual of U.S. Cave Rescue Techniques, National Cave Rescue Commission & National Speleological Society	SS11.02.19
Mountain Search and Rescue Techniques, W. G. May	SS11.02.18 SS11.02.19

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REFERENCES

TASK NUMBERS

Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1982	SS11.01.03	SS11.01.05	SS11.02.01
	SS11.02.02	SS11.02.03	SS11.02.04
	SS11.02.10	SS11.02.11	SS11.02.12
	SS11.02.13		
Nautical Chart Abbreviations and Symbols	SS13.02.04		
On Rope, Padget and Smith	SS11.02.19		
Operations Handbook for Pieps, Ortovox, and Ramer Avalanche Transceivers	SS12.03.03		
Ropes, Knots, and Slings for Climbers, La Siesta Press, Glendale, CA 1982	SS11.01.01		
Snow Sense: A Guide to Evaluating Snow Avalanche Hazard, Fredston, Jill A. and Doug Fester, ed Edition 1988	SS12.03.01	SS12.03.02	SS12.03.03
The ABC's of Avalanche Safety, 2d Edition, La Chapelle E.D., 1985	SS12.03.01	SS12.03.02	
The Royal Marine's Mountain and Arctic Warfare Handbook, 1972	SS11.02.05	SS11.02.06	SS12.02.02
	SS12.03.01	SS12.03.02	
Urban Assault Instructor Handbook	SS11.02.15	SS11.02.20	
Wilderness Search and Rescue, Tim Setnicka, Appalachian Mountain Club, Boston, MA, 1980	SS11.01.03	SS11.01.04	SS11.01.05
	SS11.01.06	SS11.02.12	
FM 21-50, Ranger Operations	SS11.02.13		
FM 31-70, Basic Cold Weather Operations	SS12.01.01	SS12.02.02	
FM 31-72, Mountain Operations	SS11.01.04	SS11.01.05	SS11.01.06
	SS11.01.07	SS11.02.04	SS11.02.05
	SS11.02.07		
FMFM 0-7, Close Combat	SS13.02.01		
FMFM 7-45/FM 31-25, Special Forces Waterborne Operations	SS13.02.01	SS13.02.03	SS13.02.04
FMFRP 7-23, Small Unit Leader-s Guide to Cold Weather Operations	SS12.01.01	SS12.01.02	SS12.02.01
	SS12.02.02	SS12.02.03	SS12.03.01
	SS12.03.02	SS12.03.03	
FMFRP 7-24, Commander's Guide to Cold Weather Operations	SS12.01.01	SS12.01.02	SS12.03.01
	SS12.03.02	SS12.03.03	
MARFORLANT/PAC INST, P3000.15, Standard Procedures for Raiding Craft	SS13.01.04		

Appendix D to  
ENCLOSURE (5)

REFERENCES	TASK NUMBERS		
MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training	SS11.02.14 SS11.02.17 SS11.03.04 SS11.03.07 SS11.03.10 SS11.03.13	SS11.02.15 SS11.03.01 SS11.03.05 SS11.03.08 SS11.03.11	SS11.02.16 SS11.03.02 SS11.03.06 SS11.03.09 SS11.03.12
MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training	SS11.02.14 SS11.02.17 SS11.03.04 SS11.03.07 SS11.03.10 SS11.03.13	SS11.02.15 SS11.03.01 SS11.03.05 SS11.03.08 SS11.03.11	SS11.02.16 SS11.03.02 SS11.03.06 SS11.03.09 SS11.03.12
MCMWTC, Instructor Handbook	SS11.02.16 SS11.02.19	SS11.02.17 SS11.02.21	SS11.02.18
MCO 1510.90, Individual Training Standards (ITS) System for Marine Battle Skills Training (MBST), Volume 2-Corporal through Gunnery Sergeant	SS13.02.01	SS13.02.02	
MCO 1510.35, Individual Training Standards for Occupational Field 03 Infantry	SS13.01.01	SS13.01.02	SS13.01.03
MCO 1510.89 W/CH 1, individual Training Standards (ITS) System for Marine Battle Skills Training (MBST), Volume 1-entry Level	SS13.02.01		
SH 21-76, Ranger Handbook	SS13.02.04		
ST 21-75-2, Ranger Handbook	SS11.01.02 SS11.01.06 SS11.02.02 SS11.02.07	SS11.01.04 SS11.01.07 SS11.02.04 SS11.02.11	SS11.01.05 SS11.02.01 SS11.02.05
TC 31-25, Special Forces Waterborne Operations	SS13.01.01 SS13.02.02	SS13.01.02	SS13.01.03
TC 90-6, Mountain Operations	SS11.01.02 SS11-01-06 SS11.02.05	SS11.01.04 SS11.01.07	SS11.01.05 SS11.02.01
TC 90-6-1, Military Mountaineering	SS11.01.01 SS11.02.03 SS11.02.06 SS11.02.09 SS11.02.13	SS11.01.02 SS11.02.04 SS11.02.07 SS11.02.10 SS11.02.19	SS11.01.03 SS11.02.05 SS11.02.08 SS11.02.11
U.S. ARMY MANUAL, 1990 Edition	SS11.02.09	SS11.02.10	SS11.02.12

INDIVIDUAL TRAINING STANDARDS

1. General. This enclosure contains all of the ITS9 for this OccFld, grouped by MOS. Each MOS is contained in a separate Appendix to Enclosure (6).
2. Format. For each ITS, the following elements of information are provided:
  - a. TASK. The task describes a specific and necessary behavior expected of a Marine in a particular MOS or job. It is a clearly stated, performance-oriented action requiring a learned skill.
  - b. CONDITION(S). This portion of the ITS describes the equipment, manuals, assistance/supervision, special physical demands, environmental conditions, and location affecting a Marine's performance of the task under real-world circumstances.
  - c. STANDARD(S). This portion of the ITS describes the level of proficiency to which the individual must perform the task.
  - d. PERFORMANCE STEPS. Collectively, the performance steps represent the logical sequence of actions required of the marine to perform the task to standard. These actions are typically detailed in the references.
  - e. REFERENCES. References are doctrinal publications, technical manuals, and other publications upon which the ITS and its performance steps are based. They should be readily available and provide detail to the procedures that are only summarized in the performance steps.
  - f. ADMINISTRATIVE INSTRUCTIONS (Optional). Administrative instructions provide the trainer/instructor with special required or recommended circumstances, including safety precautions, relating to the training or execution of the task. These instructions may also clarify the meaning of the task.
  - g. INITIAL TRAINING SETTING. All ITs are assigned an Initial Training Setting that includes a specific location for initial instruction (Formal School or MOJT), level of training required at that location (Standard or Preliminary), a sustainment factor (number of months between evaluation or retraining to maintain the proficiency required by the standard), and a "Required By" rank (the lowest rank at which task proficiency is required).
  - h. TRAINING MATERIEL (Optional). Training materiel includes all training devices, simulators, aids, equipment, and materials (except ammunition and Marine Corps Institute (MCI) publications) required or recommended to properly train the task under the specified conditions and to the specified standard. Mandatory items are preceded by an asterisk(\*).
  - i. AMMUNITION (Optional). This table, if present, depicts the ammunition, explosives, and/or pyrotechnics required for proper training of the ITS.
  - j. CURRENT MCI(S) (Optional). This section includes a list of any currently available MCI publications designed to provide training related to this task.

ENCLOSURE (6)

MOS SS11, TACTICAL ROPE TECHNICIAN

DUTY AREA 01 - BASIC ROPE SUSPENSION SKILLS

TASK: SS11.01.01 CONDUCT KNOT TYING DRILL

CONDITION(S): Assigned as a Tactical Rope Suspension Master, Assault Climber, or Mountain Leader and given a mission to conduct tactical climbing operations.

STANDARD(S): Prior to all mountain operations requiring rope craft.

PERFORMANCE STEPS:

1. Assemble Marines around the rope corral.
2. Demonstrate knot tying.
3. Ensure each Marine can:
  - a. Construct a loop.
  - b. Construct a bight.
  - c. Tie a square knot in 30 seconds.
  - d. Tie a double loop bowline in 30 seconds.
  - e. Tie a fishermans knot in 30 seconds.
  - f. Tie a round turn and bowline in 30 seconds.
  - g. Tie a round turn and two half hitches in 30 seconds.
  - h. Tie a close hitch in 30 seconds.
  - i. Tie a double figure eight knot in 30 seconds.
  - j. Tie a directional figure eight knot in 30 seconds.
  - k. Tie a retraced figure eight knot in 45 seconds.
  - l. Tie a water knot in 30 seconds.
  - m. Tie an end of rope/line prussick in 45 seconds.
  - n. Tie a bowline on a bight in 30 seconds.
  - o. Tie a middle of rope/line prussick knot in 30 seconds.
  - p. Tie a military rappel/swiss seat in 45 seconds.
  - q. Tie an around the body bowline in 45 seconds.
4. Demonstrate coil tying.

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5. Ensure each Marine can:
  - a. Flake a rope/line.
  - b. Tie a butterfly coil in 5 minutes.
  - c. Tie a hasty coil in 5 minutes.
  - d. Tie a mountain coil in 5 minutes.

REFERENCE(S):

1. Basic Rock Craft, Royal Robins, La Siesta Press, Glendale, CA, 1971
2. Ropes, Knots, and Slings for Climbers, La Siesta Press, Glendale, CA 1982
3. TC 90-6-1, Military Mountaineering

ADMINISTRATIVE INSTRUCTIONS:

1. Helicopter Rope Suspension Training (HRST) Masters are required to know knots, in paragraph 3c., 3f., 3h., 3i., 3p., and 3q.
2. Tactical Rope Suspension Masters, Assault Climbers, and Mountain Leaders are required to tie all knots blindfolded.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)

Appendix A to  
ENCLOSURE (6)

14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.01.02 MAINTAIN MOUNTAINEERING EQUIPMENT

CONDITION(S): Assigned as a Rope Suspension Master, Assault Climber, or Mountain Leader and provided with the necessary equipment, and a requirement to conduct preventive maintenance (PM) and inspection on the individual components of Marine Assault Climber's Kit (MACK).

STANDARD(S): As necessary, to ensure serviceability.

PERFORMANCE STEPS:

1. Inspect all equipment for serviceability.
2. Perform preventive maintenance cleaning on all equipment.
3. Perform preventive maintenance lubrication on all equipment with moving parts or steel which may rust.
4. Remove all excess CLP prior to use.
5. Keep Chief Rope Suspension Master informed of all status changes regarding equipment.

REFERENCE(S):

1. ST 21-75-2, Ranger Handbook
2. TC 90-6, Mountain Operations
3. TC 90-6-1, Military Mountaineering

ADMINISTRATIVE INSTRUCTIONS:

1. To prevent rust, heavy lubrication of equipment is required for storage, and shipboard operations. All lubricants not critical to operation must be removed before use to prevent accidents or mishaps.
2. Lubricated items must not contact nylon items to prevent damage (nylon items will melt).
3. Maintain log book of all maintenance records.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. \* 120' Line



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3. \* 550 Parachute Cord
  4. 90' Static Rapped Tower
  5. Communication Equipment
  6. \* Crampon Adjustment Kit
  7. \* Crampon(s)
  8. Footfangs
  9. Helicopter Rope Suspension Training (HRST) Kit
  10. Ice Axe
  11. Locking Carabiner(s)
  12. Marine Assault Climber's Kit (MACK)
  13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
  14. Mock Helicopter Tower
  15. \* Sling Rope(s)
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TASK: SS11.01.03 CONDUCT RAPPELLING,

CONDITION(S): Given a cliff head of at least 30 feet, a MACK, gloves, and a certified Tactical Rope Suspension Master, Assault Climber, or Mountain Leader.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Select a rappel site.
2. Establish a rappel site.
3. Tie a military rappel/Swiss seat.
4. Determine type of rappel to be utilized.
5. Rappel, using selected method.
  - a. Conduct a first man down rappel using seat hip method.
  - b. Conduct a seat hip rappel using a large locking carabiner.
  - c. Conduct a rappel with the seat hip method, utilizing a figure eight.
  - d. Conduct a hasty rappel.
  - e. Conduct a seat shoulder rappel.

Appendix A to  
ENCLOSURE (6)

- f. Conduct a body rappel.
- 6. Tie off, as required.
- 7. Relay a rappeller.
- 8. Construct a retrievable rappel.
- 9. Retrieve the rope from the rappel site.

REFERENCE(S):

- 1. Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1982
- 2. Wilderness Search and Rescue, Tim Setnicka, Appalachian Mountain Club, Boston, MA, 1980
- 3. TC 90-6-1, Military Mountaineering

ADMINISTRATIVE INSTRUCTIONS:

- 1. The Marine will observe all safety precautions to prevent injury and damage to equipment.
- 2. The Marine must be able to perform a self-rescue.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

- 1. 101 Static Rappeling Tower
- 2. 120' Line
- 3. 550 Parachute Cord
- 4. 90' Static Rappel Tower
- 5. Communication Equipment
- 6. Crampon Adjustment Kit
- 7. Crampon(s)
- 8. Footfangs
- 9. Helicopter Rope Suspension Training (HRST) Kit
- 10. Ice Axe
- 11. \* Locking Carabiner(s)
- 12. \* Marine Assault Climber's Kit (MACK)

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13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. \* Sling Rope(s)

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TASK: SS11.01.04 EMPLOY A SUSPENSION TRAVERSE

CONDITION(S): Assigned as a Tactical Rope Suspension Master, Assault Climber, or Mountain Leader, given the MACK, a cliff head, and a specified amount of time.

STANDARD(S): Within the specific time, per the references.

PERFORMANCE STEPS:

1. Select a site.
2. Establish an anchor,
3. Tension the system.
4. Establish a second anchor.
5. Construct a carrier rope.
6. Establish a haul line for raising a load.
7. Establish a safety brake.
8. Lash equipment for raising and lowering.
9. Raise a load, as required.
10. Establish a belay or haul line for lowering.
11. Lower a load, as required.

REFERENCE(S):

1. Wilderness Search and Rescue, Tim Setnicka, Appalachian Mountain Club, Boston, MA, 1980
2. FM 31-72, Mountain Operations
3. ST 21-75-2, Ranger Handbook
4. TC 90-6, Mountain Operations

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

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TASK: SS11.01.05 EMPLOY A ONE ROPE BRIDGE

Appendix A to  
ENCLOSURE (6)

CONDITION(S): Assigned as a Tactical Rope Suspension Master, Assault Climber, or Mountain Leader, given a MACK and a stream or gorge to cross.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Select a site.
2. Establish an anchor.
3. Tension the system.
4. Establish a second anchor.
5. Establish a safety line.
6. Cross the rope bridge, utilizing one of the following:
  - a. Commando crawl.
  - b. Monkey crawl.
  - c. Rappel seat method.
7. Execute a rescue, as required.
8. Retrieve the bridge.

REFERENCE(S):

1. Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1982
2. Wilderness Search and Rescue, Tim Setnicka, Appalachian Mountain Club, Boston, MA, 1980
3. FM 31-72, Mountain Operations
4. ST 21-75-2, Ranger Handbook
5. TC 90-6, Mountain Operations

ADMINISTRATIVE INSTRUCTIONS:

1. The Marine must observe all safety precautions to prevent personal injury and equipment damage.
2. It may be necessary to incorporate an A-Frame into the system.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

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TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.01.06 EMPLOY A VERTICAL HAULING LINE SYSTEM

CONDITION(S): Assigned as a Tactical Rope Suspension Master, Assault Climber, or Mountain Leader and given a prescribed amount of time, a cliff head, and a MACK.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Select a site.
2. Construct an A-Frame.
3. Construct a safety bight.
4. Anchor the A-Frame.
5. Construct a haul line.
6. Construct a safety brake.
7. Raise a load.

Appendix A to  
ENCLOSURE (6)

8. Establish a belay position.
9. Lower a load.
10. Construct a knotted hand line, as required.
11. Construct an endless rope.
12. Raise a load utilizing the endless rope.

REFERENCE(S):

1. Wilderness Search and Rescue, Tim Setnicka, Appalachian Mountain Club, Boston, MA, 1980
2. FM 31-72, Mountain Operations
3. ST 21-75-2, Ranger Handbook
4. TC 90-6, Mountain operations

ADMINISTRATIVE INSTRUCTIONS:

1. Observe all safety procedures to prevent personal injury and damage to equipment.
2. Diversify anchors, when possible.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)

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13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.01.07 CROSS TACTICAL LANES

CONDITION(S): In the presence of a Tactical Rope Suspension Master, Assault Climber, or Mountain Leader, and given a cliff head, required equipment, and provided with: simple fixed rope installation, fixed rope installation, a fast lane, and a cable lane.

STANDARD(S): By correctly and safely maneuvering across tactical lanes to ascend a cliff head, per the references.

PERFORMANCE STEPS:

1. Receive lane equipment.
2. Tie appropriate safety harness.
3. Ascend, as required.
  - a. A simple fixed rope.
  - b. A fixed rope.
  - c. A fast lane.
  - d. A cable ladder.

REFERENCE(S):

1. FM 31-72, Mountain Operations
2. ST 21-75-2, Ranger Handbook
3. TC 90-6, Mountain Operations

ADMINISTRATIVE INSTRUCTIONS:

1. Observe all safety precautions to prevent injury and damage to equipment.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower

Appendix A to  
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5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

Appendix A to  
ENCLOSURE (6)



DUTY AREA 02 - ASSAULT CLIMBING

TASK: SS11.02.01 BALANCE CLIMB

CONDITION(S): In the presence of an Assault Climber, or Mountain Leader, and given a cliff head, or climbing wall, and required equipment.

STANDARD(S): Ascending, descending, and traversing a designated route using balance climbing techniques, per the references.

PERFORMANCE STEPS:

1. Select a site.
2. Designate a spotter.
3. Perform CASH WORTH:
  - a. C - conserve energy.
  - b. A - always test holds.
  - c. S - stand upright on fixed joints.
  - d. H - heels kept low.
  - e. W - watch your feet.
  - f. O - on three points of contact.
  - g. R - rhythmic movement.
  - h. T - think ahead.
  - i. H - hands kept low as possible.
4. Perform the following holds, as required:
  - a. Push.
  - b. Pull.
  - c. Foot.
  - d. Friction.
  - e. Jam.
  - f. Chimney.
  - g. Lie back.
  - h. Push - Pull.
  - i. Mantle.

- j. Cross-pressure.
- k. Inverted Pull or Push.
- l. Pinch.
- m. Change step.
- n. Stem.

REFERENCE(S):

- 1. Basic Rock Craft, Royal Robins, La Siesta Press, Glendale, CA, 1971
- 2. Manual of Military Mountaineering, British Royal Marines, 1982
- 3. Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1992
- 4. ST 21-75-2, Ranger Handbook
- 5. TC 90-6, Mountain Operations

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

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TASK: SS11.02.02 TWO-PARTY CLIMB

CONDITION(S): Assigned as a Mountain Leader or Assault Climber, and given a MACK, a graded route of 5.6, and a prescribed amount of time.

STANDARD(S): Ascending the designated route, placing protection, utilizing balanced climbing, and route finding techniques, as required.

PERFORMANCE STEPS:

- 1. Perform site selection.
- 2. Obtain proper equipment.
- 3. Establish belay.
- 4. Climb the route.
  - a. Place protection.
  - b. Utilize balance climbing techniques.
  - c. Utilize route finding techniques.
- 5. Establish a top anchor.
- 6. Establish a belay.

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7. Belay a #2.

REFERENCE(S):

1. Basic Rock Craft, Royal Robins, La Siesta Press, Glendale, CA, 1971
2. Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1982
3. ST 21-75-2, Ranger Handbook

ADMINISTRATIVE INSTRUCTIONS:

1. Two party climbing requires advanced rope skills, and will only be attempted by certified Assault Climbers or Mountain Leaders.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.02.03 CLIMB USING AN ICE AXE

Appendix A to  
ENCLOSURE (6)

CONDITION(S): Assigned as an Assault Climber, or Mountain Leader, and given an ice axe, safety equipment, and a suitable steep earth/ice/snow field.

STANDARD(S): Ascending, descending, and traversing the steep field safely, per the references.

PERFORMANCE STEPS:

1. Leash and grip an ice axe.
2. Climb, execute the following, as required:
  - a. High dagger.
  - b. Low dagger.
  - c. Hammer technique.
  - d. Brace technique.
  - e. Handrail technique.
  - f. Cans technique.
  - g. Self arrest.
    - (1) On back, head down.
    - (2) On back, head up.
    - (3) While tumbling.
    - (4) On belly, head down.
  - h. Cut steps and holds, as required.

REFERENCE(S):

1. Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1982
2. TC 90-6-1, Military Mountaineering

ADMINISTRATIVE INSTRUCTIONS:

1. Site selection for self arrest is critical on this task. Ensure each area has a smooth, easy run-out, free of rocks and debris.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line

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3. 550 Parachute Cord
  4. 90' Static Rappel Tower
  5. Communication Equipment
  6. Crampon Adjustment Kit
  7. Crampon(s)
  8. Footfangs
  9. Helicopter Rope Suspension Training (HRST) Kit
  10. Ice Axe
  11. Locking Carabiner(s)
  12. Marine Assault Climber's Kit (MACK)
  13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
  14. Mock Helicopter Tower
  15. Sling Rope(s)
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TASK: SS11.02.04 CLIMB USING CRAMPONS

CONDITION(S): Assigned as an Assault Climber or Mountain Leader, and given a set of crampons, safety equipment, and a suitable steep earth/ice/snow field.

STANDARD(S): While executing an ascent, descent, and traverse of the steep field in a safe manner, per the references.

PERFORMANCE STEPS:

1. Select a site.
2. Remove both boots.
3. Adjust the length of the crampons so the front bar of the crampons is even with the tip of the toe and tighten.
4. Adjust the width of the crampons so the crampons will remain on the boot without straps (skip this step, if using footfangs), and tighten.
5. Adjust the straps of the crampons to the individual's boots.
6. Execute the following while climbing with crampons:
  - a. French step.
  - b. German technique.

Appendix A to  
ENCLOSURE (6)

c. American technique.

7. Remove and store crampons.

REFERENCE(S):

1. Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1982
2. FM 31-72, Mountain Operations
3. ST 21-75-2, Ranger Handbook
4. TC 90-6-1, Military Mountaineering

ADMINISTRATIVE INSTRUCTIONS:

1. Footfangs are not adjustable in width.
2. Utilizing crampon techniques is inherently dangerous and extreme care should be taken.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower

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15. Sling Rope(s)

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TASK: SS11.02.05 CONDUCT A MEDICAL EVACUATION (MEDEVAC) OVER VERTICAL TERRAIN

CONDITION(S): Assigned as a Mountain Leader or Assault Climber, and given a cliff, a casualty or stranded climber, a MACK, and litter.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Establish contact with the casualty.
2. Apply essential first aid.
3. Determine which rescue is required.
4. Establish the rope system to facilitate the MEDEVAC.
5. Perform the rescue.

REFERENCE(S):

1. The Royal Marine's Mountain and Arctic Warfare Handbook, 1972
2. FM 31-72, Mountain Operations
3. ST 21-75-2, Ranger Handbook
4. TC 90-6, Mountain Operations
5. TC 90-6-1, Military Mountaineering

ADMINISTRATIVE INSTRUCTIONS:

1. Cliff head rescue requires advanced rope skills, and will only be attempted by certified assault climber or mountain leader.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit

Appendix A to  
ENCLOSURE (6)

7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.02.06 CONDUCT A ROUGH TERRAIN MEDICAL EVACUATION (MEDEVAC)

CONDITION(S): Assigned as a Mountain Leader or Assault Climber, and given a Cliff, a casualty or stranded climber, a MACK, and litter.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Apply first aid.
2. Protect the casualty.
3. Construct a litter and fix casualty, as required.
4. Determine evacuation route.
5. Arrange litter teams and rewarming stations, as required.
6. Utilize anchors and belays, as required.

REFERENCE(S):

1. The Royal Marine's Mountain and Arctic Warfare Handbook, 1972
2. TC 90-6-1, Military Mountaineering

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord



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4. 90' Static Rappel Tower
  5. Communication Equipment
  6. Crampon Adjustment Kit
  7. Crampon(s)
  8. Footfangs
  9. Helicopter Rope Suspension Training (HRST) Kit
  10. Ice Axe
  11. Locking Carabiner(s)
  12. Marine Assault Climber's Kit (MACK)
  13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
  14. Mock Helicopter Tower
  15. Sling Rope(s)
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TASK: SS11.02.07 CONSTRUCT TACTICAL LANES

CONDITION(S): Assigned as a Mountain Leader or Assault Climber and given a cliff head and a MACK.

STANDARD(S): In order to move a unit of inexperienced, heavily loaded Marines to ascend the cliff head with a minimum of difficulty, per the references.

PERFORMANCE STEPS:

1. Select a site.
2. Identify the type of tactical lane required.
3. Construct one of the following, as required:
  - a. Simple fixed rope.
  - b. Fixed rope.
  - c. Fast lane.
  - d. Cable ladder lane.
4. Install belay rope, as required.
5. Maintain tactical lane.
6. Inform the Cliff Head officer of the status of the tactical lane.

Appendix A to  
ENCLOSURE (6)

REFERENCE(S):

1. FM 31-72, Mountain Operations
2. ST 21-75-2, Ranger Handbook
3. TC 90-6-1, Military Mountaineering

ADMINISTRATIVE INSTRUCTIONS:

1. Lane is constructed to allow ease of use.
2. Construction of tactical lanes requires advanced rope skills, and will only be attempted by certified Assault Climbers or Mountain Leaders.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.02.08 CONDUCT DIRECT AID CLIMB

Appendix A to  
ENCLOSURE (6)

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CONDITION(S): Assigned as an Assault Climber or Mountain Leader, given a MACK, specialized direct aid protections, and provided with a cliff face with 5.7 or better difficulty.

STANDARD(S): Utilizing direct aid techniques, and a rope utilizing rope walking techniques, per the reference.

PERFORMANCE STEPS:

1. Select a site.
2. Select proper equipment.
3. Establish a bottom anchor and belay.
4. Climb the route demonstrating proficiency in the of:
  - a. Etriers.
  - b. Specialized direct aid protection/pitons/piton hammer.
5. Establish a top anchor.
6. Belay.
7. Organize for rope walking.
8. Ascend the rope.

REFERENCE(S):

1. TC 90-6-1, Military Mountaineering

ADMINISTRATIVE INSTRUCTIONS:

1. Direct aid climbing involves advanced rope techniques and will only be attempted by certified assault climbers or mountain leaders.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappelling Tower
2. 120' Line
3. 550 Parachute Cord
4. 901 Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)

Appendix A to  
ENCLOSURE (6)

8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.02.09 CONSTRUCT IMPROVISED ANCHORS IN AN URBAN AREA

CONDITION(S): In the presence of a certified Urban Climber, Assault Climber, or Mountain Leader and given an urban area, MACK, and required assorted materials.

STANDARD(S): Meeting established safety requirements, per the references.

PERFORMANCE STEPS:

1. Select improvised anchor points.
2. Select equipment for an operation.
3. Buff/Pad necessary points.
4. Utilize MACK and improvised to construct anchors.

REFERENCE(S):

1. TC 90-6-1, Military Mountaineering
2. U.S. ARMY MANUAL, 1990 Edition

ADMINISTRATIVE INSTRUCTIONS: Construction of improvised anchors involves extreme danger and a focus on safety is vitally important.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower

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5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.02.10 EMPLOY IMPROVISED CLIMBING TECHNIQUES IN AN URBAN AREA

CONDITION(S): As a certified Urban Climber, Assault Climber, or Mountain Leader, in an urban area, and given a MACK.

STANDARD(S): Successfully ascending a vertical obstacle, per the references.

PERFORMANCE STEPS:

1. Select a site.
2. Select required equipment.
3. Inspect equipment.
4. Climb the obstacle utilizing:
  - a. Cable ladder with pole/grappling hook placement.
  - b. Pyramid climbing.
  - c. Rope walking techniques.
  - d. Lead on structure, fixtures, appliances.
  - e. Cliff hanger/Pole method.

REFERENCE(S):

Appendix A to  
ENCLOSURE (6)

1. Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1982
2. TC 90-6-1, Military Mountaineering
3. U.S. ARMY MANUAL, 1990 Edition

ADMINISTRATIVE INSTRUCTIONS:

1. Improvised climbing techniques involves extreme danger and focus on safety is vitally important.
2. While training, a top rope should be employed where ever possible.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.02.11 EMPLOY A TOP ROPE

CONDITION(S): Assigned as a Mountain Leader or Assault Climber, given a cliff head of at least 20 feet or a climbing wall, and a MACK.

STANDARD(S): Per the references.

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PERFORMANCE STEPS:

1. Select a site.
2. Establish an anchor.
3. Belay a climber.
4. Climb a top rope lane.

REFERENCE(S):

1. Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1982
2. ST 21-75-2, Ranger Handbook
3. TC 90-6-1, Military Mountaineering

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber-s Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.02.12 EXTRICATE PERSONNEL FROM A TREE

Appendix A to  
ENCLOSURE (6)

CONDITION(S): Assigned as a Mountain Leader or Assault Climber, given a MACK and a mission to rescue a tree-stranded airman.

STANDARD(S): Safely, per the references.

PERFORMANCE STEPS:

1. Locate the airman.
2. Establish a bottom anchor.
3. Establish a belay.
4. Climb the tree utilizing one of the following methods:
  - a. Lead climb.
  - b. Pole climb with gaffs/strap.
  - c. Rope walking.
5. Anchor yourself.
6. Apply first aid to the airman, as required.
7. Establish an anchor and belay for airman.
8. Attach rope to airman.
9. Release airman from flight harness.
10. Lower airman.
11. Lower yourself.
12. Continue applying first aid to the airman, as required.

REFERENCE(S):

1. Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1982
2. Wilderness Search and Rescue, Tim Setnicka, Appalachian Mountain Club, Boston, MA, 1980
3. U.S. ARMY MANUAL, 1990 Edition

ADMINISTRATIVE INSTRUCTIONS:

1. Certification for pole climbing with gaffs/straps is awarded by Field Wireman's Course (MOS 2512).

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)



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TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower
15. Sling Rope(s)

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TASK: SS11.02.13 ORGANIZE A CLIFF ASSAULT

CONDITION(S): Assigned as a Mountain Leader or Assault Climber, given a tactical mission, a MACK, a Cliff head, controlling features, and communications equipment.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Conduct reconnaissance.
2. Select a site.
3. Establish security.
4. Select climbing lanes.
5. Appoint control point NCO's.
6. Appoint a Cliff Head Officer.
7. Appoint messengers and guides.

Appendix A to  
ENCLOSURE (6)

8. Establish control features.
9. Establish climbing lanes.
10. Establish communications.
11. Participate in all rehearsals, inspections, and billets as directed.
12. Participate in all debriefs, as required.

REFERENCE(S):

1. Mountaineering, The Freedom of the Hills, 5th Edition, The Mountaineers, Seattle, WA, 1982
2. FM 21-50, Ranger Operations
3. TC 90-6-1, Military Mountaineering

ADMINISTRATIVE INSTRUCTIONS:

1. The assault climber or mountain leader officer/NCO must inform his commander on all matters pertaining to cliff assault operations.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. 10' Static Rappeling Tower
2. 120' Line
3. 550 Parachute Cord
4. 90' Static Rappel Tower
5. Communication Equipment
6. Crampon Adjustment Kit
7. Crampon(s)
8. Footfangs
9. Helicopter Rope Suspension Training (HRST) Kit
10. Ice Axe
11. Locking Carabiner(s)
12. Marine Assault Climber's Kit (MACK)
13. Marine Corps Helicopters (CH-46, CH-53, UH1N)
14. Mock Helicopter Tower

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15. Sling Rope(s)

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TASK: SS11.02.14 CONDUCT TACTICAL RAPPELLING

CONDITION(S): As a certified Urban Climber, Assault Climber or Mountain Leader, given an urban environment and a MACK.

STANDARD(S): Utilizing a rappel station and observing all safety precautions to prevent personal injury and equipment damage.

PERFORMANCE STEPS:

1. Select a rappel site.
2. Establish a rappel site, utilizing one rope.
3. Conduct a rappel using a selected method.
  - a. Conduct a seat hip rappel.
  - b. Tie off, as required.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

ADMINISTRATIVE INSTRUCTIONS:

1. Ensure that Marines observe all safety precautions to prevent injury.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req By (Pvt)

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TASK: SS11.02.15 CONDUCT URBAN RAPPELLING TECHNIQUES

CONDITION(S): As a certified Urban Climber, Assault Climber or Mountain Leader, given an urban environment and appropriate gear.

STANDARD(S): Utilizing a rappel station and performing low profile rappelling, per the references.

PERFORMANCE STEPS:

1. Select a rappel site.
2. Establish a rappel site, using one rope.
3. Conduct a rappel using the seat hip method.
4. Tie off as required.

Appendix A to  
ENCLOSURE (6)

5. Assume a shooting position.
6. Conduct a four man entry.

REFERENCE(S):

1. Urban Assault Instructor Handbook
2. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
3. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

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TASK: SS11.02.16 RIG A RAISING/LOWERING SYSTEM

CONDITION(S): In the presence of a certified Urban Climber, Assault Climber or Mountain Leader, given an urban area and appropriate gear.

STANDARD(S): Using improvised anchors that meet established safety requirements.

PERFORMANCE STEPS:

1. Select an appropriate site.
2. Establish a raising/lowering system.
3. Inspect system.
4. Raise/Lower personnel and equipment.
5. Reverse the system operation.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training
3. MCMWTC, Instructor Handbook

ADMINISTRATIVE INSTRUCTIONS:

1. Ensure that a safety line and safety break are used when personnel are being raised or lowered.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

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TASK: SS11.02.17 USE A GRAPPLING HOOK

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CONDITION(S): In the presence of a certified Urban Climber, Assault Climber or Mountain Leader, given an urban environment and appropriate gear.

STANDARD(S): For use and employment in an urban environment.

PERFORMANCE STEPS:

1. Select a site.
2. Properly rig a grappling hook.
3. Identify throwing point.
4. Face wall and swing grappling hook releasing on upward swing.
5. When grappling hook makes contact with objective, apply body weight on rope to set and test anchor.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing operating Procedure for Helicopter Rope Suspension Training
3. MCMWTC, Instructor Handbook

ADMINISTRATIVE INSTRUCTIONS:

1. Ensure that all Marines in the area wear proper safety equipment.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

TASK: SS11.02.19 CONDUCT CASUALTY EXTRACTION/EVACUATIONS

CONDITION(S): In the presence of a certified Urban Climber, Assault Climber or Mountain Leader, given an urban environment and a MACK.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Select a site.
2. Establish a rappel site.
3. Establish a raising/lowering system.
4. Assist evacuee in donning proper equipment.
5. Assist evacuee out of the exit point.
6. Lower evacuee.

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REFERENCE(S):

1. Mountain Search and Rescue Techniques, W. G. May
2. MCMWTC, Instructor Handbook

ADMINISTRATIVE INSTRUCTIONS:

1. Ensure that a safety line and safety break are used when personnel are being raised or lowered.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

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TASK: SS11.02.19 ASCEND A STRUCTURE

CONDITION(S): In the presence of a certified Urban Climber, Assault Climber or Mountain Leader, given an urban environment and appropriate equipment.

STANDARD(S): Utilizing a climbing lane and by using the various Jummar techniques to ascend and conduct a change over to a rappel to descend, per the references.

PERFORMANCE STEPS:

1. Select a site.
2. Establish a Jummar site.
3. Select and don required equipment.
4. Ascend (Jummar) two thirds way up the rope.
5. Change over to rappel, and descend half way down and tie off, as required.
6. Change over to a Jummar and ascend all the way to the top.

REFERENCE(S):

1. Advanced Rock Craft, Royal Robbins
2. Manual of U.S. Cave Rescue Techniques, National Cave Rescue Commission & National Speleological Society
3. Mountain Search and Rescue Techniques, W. G. May
4. On Rope, Padget and Smith
5. MCMWTC, Instructor Handbook
6. TC 90-6-1, Military Mountaineering

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ADMINISTRATIVE INSTRUCTIONS:

1. Ensure all Marines conduct familiarization training of both a "Jummar" and "rappel change over" not more than 10 feet off the ground prior to training at greater heights.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

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TASK: SS11.02.20 UTILIZE PIPE CLIMBING TECHNIQUES

CONDITION(S): In the presence of a certified Urban Climber, Assault Climber or Mountain Leader, given an urban environment and appropriate equipment.

STANDARD(S): Utilizing the two possible techniques used for climbing a pipe, per the references.

PERFORMANCE STEPS:

1. Select climbing site.
2. Select required equipment.
3. Ascend a pipe using the different methods.

REFERENCE(S):

1. Urban Assault Instructor Handbook

ADMINISTRATIVE INSTRUCTIONS:

1. The Marine must observe all safety precautions to prevent injury, pipe climbing techniques involve extreme dangers.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

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TASK: SS11.02.21 UTILIZE CABLE LADDERS

CONDITION(S): In the presence of a certified Urban Climber, Assault Climber or Mountain Leader, given an urban environment and appropriate equipment.

STANDARD(S): While applying all three techniques, per the reference.

PERFORMANCE STEPS:

1. Select an appropriate site.
2. Establish the site.
3. Select and don required equipment.
4. Ascend the cable ladder using the three climbing techniques.

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REFERENCE(S):

1. MCMWTC, Instructor Handbook

ADMINISTRATIVE INSTRUCTIONS:

1. Ensure that all Marines use a safety line while climbing cable ladders.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Pvt)

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DUTY AREA 03 - HELICOPTER ROPE SUSPENSION SKILLS

Though there is no HRST Kit in the supply system, the items composing the HRST Kit are as follows: SPIE Kit, Marine Assault Climber's Kit (MACK), CH-46/53 Interface Kit, SPIE Harness, SPIE Rope, Rappel Ropes, Steel Locking Carabiner(s), Assault Descenders, Sling Rope(s), 32" Steel Cable(s), Leather Cloves, Air Crew Safety Belt, A-7A Aerial Delivery Cargo Sling, FAST Rope(s), Type-IV Connectors, Type-26 Multi-Loop Cargo Suspension Sling.

TASK: SS11.03.01 MAINTAIN THE HELICOPTER ROPE SUSPENSION TRAINING (HRST) KIT

CONDITION(S): Given an HRST kit, cleaning materials, and references.

STANDARD(S): Ensuring that it is completely clean prior to storage, per the references.

PERFORMANCE STEPS:

1. Select equipment for the planned HRST operation.
2. Inspect equipment for serviceability.
3. Annotate and remove unserviceable equipment.
4. Clean equipment after completion of operation.
5. Stow equipment.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

ADMINISTRATIVE INSTRUCTIONS:

1. References are reviewed on a periodic basis.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Helicopter Rope Suspension Training (HRST) Kit
2. \* Rappelling Ropes

TASK: SS11.03.02 RIG A STATIC TOWER FOR HRST OPERATIONS

CONDITION(S): Assigned the mission to establish an HRST point (rappel, FAST rope), given a static rappel tower, an HRST kit, and required safety personnel.

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ENCLOSURE (6)

STANDARD(S): Using the correct type of anchors and buffing, ensuring once rigged, the tower is safe for training, per the references.

PERFORMANCE STEPS:

1. Inspect the tower and all anchors for serviceability,
2. Select equipment for the operation.
3. Buff/pad necessary points.
4. Rig rope suspension equipment.
5. Ensure Safety Insert Officer (SIO) inspects rigging for correct installation.
6. Don individual HRST equipment.
7. Give safety brief for tower being used, and inspect all individual ropes.
8. Demonstrate one complete cycle of the training to be accomplished.
9. Master ropers are stationed at each rappel or FAST rope point.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

ADMINISTRATIVE INSTRUCTIONS:

1. Students must pass with 100% mastery on rigging stations.

INITIAL TRAINING SETTING: Formal School (Standard) Suatainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Communication Equipment
2. \* Helicopter Rope Suspension Training (HRST) Kit
3. \* Static Rappelling Tower

TASK: SS11.03.04 RIG A HELICOPTER FOR RAPPELLING

CONDITION(S): Assigned the mission of preparing a helicopter for rappelling, and given a helicopter, RRST kit, and required safety personnel.

STANDARD(S): Correctly with rappel rope attachment points, anchors, and padding that meets the requirements in the references.

PERFORMANCE STEPS:

1. Inspect the aircraft and all attachment points.
2. Select equipment for the intended operation.
3. Buff/Pad necessary points.
4. Rig rope Suspension equipment.
5. Ensure SIO inspects rigging for proper installation.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing operating Procedure for Helicopter Rope Suspension Training

ADMINISTRATIVE INSTRUCTIONS:

1. Students must pass with 100% mastery on all rigging stations.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Communication Equipment
2. \* Helicopter Rope Suspension Training (HRST) Kit
3. \* Marine Corps Helicopters (CH-46, CH-53, UH1N)

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TASK: SS11.03.05 CONDUCT HELICOPTER RAPPELLING

CONDITION(S): Assigned the mission to conduct rappel training from a helicopter, and given a helicopter, HRST kit, and required safety personnel.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Assemble the trainees.
2. Don individual HRST equipment, and inspect all individual ropers.
3. Give safety brief for the HRST operation being conducted.
4. Station a master roper at each rappel point.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

ADMINISTRATIVE INSTRUCTIONS:

1. Instructors ensure all Marines being trained conduct static tower training prior to conducting training from any aircraft.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Communication Equipment
  2. \* Helicopter Rope Suspension Training (HRST) Kit
  3. \* Marine Corps Helicopters (CH-46, CH-53, UH1N)
- 

TASK: SS11.03.06 RIG A HELICOPTER FOR FAST ROPE

CONDITION(S): Assigned the mission of preparing a helicopter for fast roping, and given a helicopter, HRST kit, and required safety personnel.

STANDARD(S): Meeting the requirements in the references.

PERFORMANCE STEPS:

1. Inspect the aircraft and all attachment points.
2. Select equipment for the intended operation.
3. Properly buff/pad necessary points.
4. Properly rig rope suspension equipment.
5. Ensure SIO inspects rigging for proper installation.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

ADMINISTRATIVE INSTRUCTIONS:

1. Students must pass with 100% mastery on all rigging stations.

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INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Communication Equipment
  2. \* Helicopter Rope Suspension Training (HRST) Kit
  3. \* Marine Corps Helicopters (CH-46, CH-53, UH1N)
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TASK: SS11.03.07 CONDUCT HELICOPTER FAST ROPE OPERATIONS

CONDITION(S): Assigned the mission to conduct fast rope training from a helicopter, and given a helicopter, HRST kit, and required safety personnel.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Assemble the trainees.
2. Don individual HRST equipment.
3. Give safety brief for operation being conducted.
4. Station a master fast roper at each fast rope point.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Communication Equipment
  2. \* Helicopter Rope Suspension Training (HRST) Kit
  3. \* Marine Corps Helicopters (CH-46, CH-53, UH1N)
- 

TASK: SS11.03.08 RIG A HELICOPTER FOR SPECIAL INSERTION EXTRACTION (SPIE)

CONDITION(S): Assigned the mission of preparing a helicopter for SPIE, and given a helicopter, HRST kit, and required safety personnel.

STANDARD(S): Meeting the requirements in the references.

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PERFORMANCE STEPS:

1. Inspect the aircraft and all attachment points.
2. Select equipment for the intended operation.
3. Properly buff/pad necessary equipment.
4. Ensure Safety Insert Officer (SIO) inspects rigging for proper installation.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

ADMINISTRATIVE INSTRUCTIONS:

1. Students must pass with 100% mastery on all rigging stations.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Communication Equipment
2. \* Helicopter Rope Suspension Training (HRST) Kit
3. \* Marine Corps Helicopters (CH-46, CH-53, UH1N)

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TASK: SS11.03.09 CONDUCT SPIE OPERATIONS

CONDITION(S): Assigned the mission to conduct SPIE training from a helicopter, and given a helicopter, HRST kit, and required safety personnel.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Assemble the trainees.
2. Don individual HRST equipment.
3. Give the appropriate safety brief for the HRST operation being conducted.
4. Station a SPIR Master at each SPIE point.

REFERENCE(S):

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1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Communication Equipment
2. \* Helicopter Rope Suspension Training (HRST) Kit
3. \* Marine Corps Helicopters (CH-46, CH-53, UH1N)

TASK: SS11.03.10 CONDUCT A HELICOPTER ROPE SUSPENSION TRAINING (HRST) BRIEF

CONDITION(S): Assigned as the Rope Master for and HRST operation, and given an HRST checklist, an aircraft and aircrew.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Assemble the aircrew.
2. Brief equipment rigging.
3. Brief sequence of events.
4. Brief safety conditions.
5. Debrief aircrew after completion of operation.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Communication Equipment
2. \* Helicopter Rope Suspension Training (HRST) Kit
3. \* Marine Corps Helicopters (CH-46, CH-53, UH1N)

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TASK: SS11.03.11 CONDUCT TACTICAL SPIE

CONDITION(S): Assigned as the HRST Master for a mission, and given required equipment and safety supervisors.

STANDARD(S): Completing the mission, per the references.

PERFORMANCE STEPS:

1. Inspect all necessary equipment.
2. Don necessary equipment.
3. Take part in pre-flight inspection and briefs.
4. Attach harness to the rope.
5. Give the "Ready to lift" or "Emergency signal".

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Communication Equipment
  2. \* Helicopter Rope Suspension Training (HRST) Kit
  3. \* Marine Corps Helicopters (CH-46, CH-53, UH1N)
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TASK: SS11.03.12 CONDUCT A SEAT HIP RAPPEL

CONDITION(S): Under the supervision of an HRST Master, given the required equipment for rappelling, a combat load, a helicopter, and a rigged rappel point.

STANDARD(S): Using controlled descent techniques, per the references.

PERFORMANCE STEPS:

1. Inspect the sling rope, gloves, and carabiner for serviceability.
2. Don a military rappel seat.
3. Insert the carabiner.
4. Take part in pre-flight inspection and all briefs.



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5. Rapped, from the helicopter on command.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing Operating Procedure for Helicopter Rope Suspension Training

ADMINISTRATIVE INSTRUCTIONS:

1. Prior to any helicopter rappelling operation, and within the previous 60 days, Marines must make a minimum of three rappels from the static tower; two of the three must be with combat equipment, under the supervision of an HRST Master.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. Communication Equipment
2. \* Helicopter Rope Suspension Training (HRST) Kit
3. \* Marine Corps Helicopters (CH-46, CH-53, UH1N)
4. \* Static Rappelling Tower

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TASK: SS11.03.13 CONDUCT A FAST ROPE DESCENT

CONDITION(S): Under the supervision of an HRST Master, given the required equipment for FAST rope insert, a combat load, a helicopter, and a rigged FAST rope point.

STANDARD(S): Using controlled descent techniques, per the references.

PERFORMANCE STEPS:

1. Inspect gloves and equipment for serviceability.
2. Take part in pre-fight inspection and all briefs.
3. FAST Rope from the helicopter on command.

REFERENCE(S):

1. MARFORLANTO P3000.3, Standing Operating Procedure for Helicopter Rope Suspension Training
2. MARFORPACO P3501.2A, Standing operating Procedure for Helicopter Rope Suspension Training

ADMINISTRATIVE INSTRUCTIONS:

1. Prior to any helicopter FAST rope operation, and within the previous 60 days,

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Marines/Sailors must have made four FAST rope descents from a 10 feet or 30 feet static tower. Two of the four descents will be made with combat equipment, under the supervision of an HRST Master.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Cpl)

TRAINING MATERIEL:

1. \* Communication Equipment
2. \* Helicopter Rope Suspension Training (HRST) Kit
3. \* Marine Corps Helicopters (CH-46, CH-53, UH1N)

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MOS SS12, MILITARY SCOUT SKIER

DUTY AREA 01 - BASIC OVER SNOW MOBILITY SKILLS

TASK: SS12.01.01 MAINTAIN OVER-THE-SNOW EQUIPMENT

CONDITION(S): Assigned as a Scout Skier or Winter Mountain Leader, given the mission to ensure operational availability of snowshoes, skies, ski poles.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Inspect all equipment for serviceability.
2. Perform preventative maintenance on equipment, as required.
3. Adjust snowshoes and/or ski bindings, as required.
4. Wax skis to provide both grip and glide in prevailing snow conditions, as required.
5. Inform Chief Mountain Leader or Scout Skier of any change in equipment status.

REFERENCE(S):

1. FM 31-70, Basic Cold Weather Operations
2. FMFRP 7-23, Small Unit Leader's Guide to Cold Weather Operations
3. FMFRP 7-24, Commander's Guide to Cold Weather Operations

ADMINISTRATIVE INSTRUCTIONS:

1. The Temporary Allowance Pool (TAP) supply system maintains all over the snow mobility equipment (Skies, Sky Poles, Snow Shoes, etc.).

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req By (Sgt)

TRAINING MATERIEL:

1. Crampon Adjustment Kit
2. Crampon(s)
3. Footfangs
4. Ice Axe
5. Locking Carabiner(s)
6. Military Skis and Poles

7. Snowshoes

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TASK: SS12.01.02 CONDUCT SKI TRAINING

CONDITION(S): Assigned as a Winter Mountain Leader or scout skier, and given the mission to prepare your unit for ski movement in a snow environment.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Assemble the unit around demonstration lanes.
2. Demonstrate military ski movement.
3. Ensure each Marine can execute the following movements at the level of a military skier:
  - a. Basic athletic stance.
  - b. Star turn.
  - c. Telemark position.
  - d. Controlled fall.
  - e. Recovery from a fall.
  - f. Kick turn.
  - g. Diagonal turn.
  - h. Double pole.
  - i. Side step.
  - j. Forward side step.
  - k. Herringbone.
  - l. Half herringbone.
  - m. Downhill running.
  - n. Transition absorption.
  - o. Up-hill traverse.
  - p. Down-hill traverse.
  - q. Up-hill diagonal stride.
  - r. Double pole with a kick.

- s. Gliding and breaking wedge.
- t. Wedge turn.
- u. Step turn.
- v. Skate turn.
- w. Obstacle crossing.
- x. Telemark turn.

REFERENCE(S):

- 1. Cross Country: Skiing Right, William Hull
- 2. Expeditionary Nordic Ski Instruction Manual
- 3. FMFRP 7-23, Small Unit Leader's Guide to Cold Weather Operations
- 4. FMFRP 7-24, Commander's Guide to Cold Weather Operations

ADMINISTRATIVE INSTRUCTIONS:

- 1. Instruction in military ski movement drills is technical in nature and will be conducted by a military Ski Instructor or military skiers only.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Sgt)

TRAINING MATERIEL:

- 1. 550 Parachute Cord
- 2. Litter
- 3. Military Skis and Poles

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DUTY AREA 02 - ROUTE PLANNING

TASK: SS12.02.01 SELECT A SKI ROUTE

CONDITION(S): Assigned as the Winter Mountain Leader or scout skier given the mission to move your unit over snow covered terrain.

STANDARD(S): Which ensures effective and efficient movement, and tests the units ability to ascend, descend and traverse using military skiing techniques, per the reference.

PERFORMANCE STEPS:

1. Employ route selection considerations:
  - a. Terrain.
  - b. Weather.
  - c. Avalanches.
  - d. Snow conditions.
  - e. Group abilities.
  - f. Tactical situation/mission.
  - g. Equipment (to include combat load).
  - h. Time.
2. Employ time-distance formula.
3. Select probable route.

REFERENCE(S):

1. FMFRP 7-23, Small Unit Leader's Guide to Cold Weather Operations

ADMINISTRATIVE INSTRUCTIONS:

1. Route selection in a snow covered environment requires technical skills. Winter Mountain Leaders or Military Scout Skiers must be involved in route planning.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Sgt)

TRAINING MATERIEL:

1. 120' Line
2. 550 Parachute Cord
3. Communication Equipment
4. Lensatic Compass

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5. Map(s) (Topographic)
  6. Military Skis and Poles
  7. Sling Rope(s)
- 

TASK: SS12.02.02 LEAD A TRAIL BREAKING PARTY

CONDITION(S): Assigned as a Winter Mountain Leader or military scout given the mission of moving a unit over a snow covered environment on a designated route, and provided with the required equipment.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Perform route selection.
2. obtain proper equipment.
3. Form trail breaking party with the following billets:
  - a. Breakers.
  - b. Straighteners.
  - c. Section Commander.
  - d. Right cutters.
  - e. Left cutters.
  - f. Packers.
4. Rotate billets, as required.
5. Perform multiple trail breaking, as required.

REFERENCE(S):

1. The Royal Marine's Mountain and Arctic Warfare Handbook, 1972
2. FM 31-70, Basic Cold Weather Operations
3. FMFRP 7-23, Small Unit Leader's Guide to Cold Weather Operations

ADMINISTRATIVE INSTRUCTIONS:

1. Trail breaking is very difficult, care must be taken to minimize over exertion.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Sgt)

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TRAINING MATERIEL:

1. 120' Line
  2. 550 Parachute Cord
  3. Communication Equipment
  4. Lensatic Compass
  5. Locking Carabiner(s)
  6. Hap(s) (Topographic)
  7. Military Skis and Poles
  8. Sling Rope(s)
- 

TASK: SS12.02.03 CROSS A FROZEN WATER OBSTACLE

CONDITION(S): Assigned as a Winter Mountain Leader or military scout, and given the required equipment and assigned the mission of moving a unit over a snow covered environment that includes water obstacles on a designated route.

STANDARD(S): Per the reference.

PERFORMANCE STEPS:

1. Perform ice reconnaissance:
  - a. Determine probable route.
  - b. Check for man-made obstacles.
  - c. Determine type of ice.
  - d. Determine ice characteristics.
2. Make individual preparation for crossing.
3. Cross ice.
4. Perform ice rescue, if required.

REFERENCE(S):

1. FMFRP 7-23, Small Unit Leader's Guide to Cold Weather Operations

ADMINISTRATIVE INSTRUCTIONS:

1. Route selection in a snow covered environment requires technical skills. Winter Mountain Leaders or Scout Skiers must be involved in route planning.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Sgt)

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TRAINING MATERIEL:

1. 120' Line
2. 550 Parachute Cord
3. Communication Equipment
4. Ice Axe
5. Lensatic Compass
6. Map(s) (Topographic)
7. Military Skis and Poles
8. Sling Rope(s)

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DUTY AREA 03 - AVALANCHE OPERATIONS

TASK: SS12.03.01 DETERMINE AVALANCHE HAZARD

CONDITION(S): Assigned as a Winter Mountain Leader or military scout, and given the required equipment and assigned the mission of moving a unit in a snow covered mountainous environment on a designated route.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Select site.
2. Check for signs of stability/instability of snow covered slopes.
3. Conduct a Rutschblock test.
4. Conduct snow pit analysis.

REFERENCE(S):

1. Avalanche Handbook, U.S. Forest Service, 1972
2. Snow Sense: A Guide to Evaluating Snow Avalanche Hazard, Fredston, Jill A. and Doug Fester, ed Edition 1988
3. The ABC's of Avalanche Safety, 2d Edition, La Chapelle E.D., 1985
4. The Royal Marine's Mountain and Arctic Warfare Handbook, 1972
5. FMFRP 7-23, Small Unit Leader's Guide to Cold Weather Operations
6. FMFRP 7-24, Co-Ander's Guide to Cold Weather Operations

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Sgt)

TRAINING MATERIEL:

1. 120' Line
2. 550 Parachute Cord
3. Communication Equipment
4. Ice Axe
5. Lensatic Compass
6. Locking Carabiner(s)
7. Hap(s) (Topographic)
8. Military Skis and Poles

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9. Sling Rope(s)

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TASK: SS12.03.02 CROSS AVALANCHE PRONE SLOPES

CONDITION(S): Assigned as a Winter Mountain Leader or military scout, and given the required equipment and assigned the mission of moving a unit in a mountainous snow covered environment with avalanche prone slopes on a designated routes.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Perform individual precautions for crossing an avalanche prone slope.
2. Employ route considerations for crossing an avalanche prone slope.
3. Perform individual actions if caught in an avalanche.

REFERENCE(S):

1. Avalanche Handbook, U.S. Forest Service, 1972
2. Snow Sense: A Guide to Evaluating Snow Avalanche Hazard, Fredston, Jill A. and Doug Fester, ed Edition 1988
3. The ABC's of Avalanche Safety, 2d Edition, La Chapelle E.D., 1985
4. The Royal Marine's Mountain and Arctic Warfare Handbook, 1972
5. FMFRP 7-23, Small Unit Leader's Guide to Cold Weather Operations
6. FMFRP 7-24, Commander's Guide to Cold Weather Operations

ADMINISTRATIVE INSTRUCTIONS:

1. Crossing avalanche prone slopes is extremely dangerous and will only be attempted by certified Winter Mountain Leaders or Scout Skiers.
2. The Marine must observe all safety precautions to prevent injury and equipment damage.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Sgt)

TRAINING MATERIEL:

1. 120' Line
2. 550 Parachute Cord
3. Communication Equipment
4. Ice Axe
5. Lensatic Compass

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6. Locking Carabiner(s)
7. Hap(s) (Topographic)
8. Military Skis and Poles
9. Sling Rope(s)

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TASK: SS12.03.03 CONDUCT AVALANCHE SEARCH AND RESCUE TECHNIQUES

CONDITION(S); Assigned as a Winter Mountain Leader or military scout given the mission of finding an individual or recovering the body of an individual buried by an avalanche, and provided with the required equipment.

STANDARD(S): Employing search techniques, per the references.

PERFORMANCE STEPS:

1. Select type of search:
  - a. Hasty.
  - b. Coarse.
  - c. Fine.
  - d. Dog search.
  - e. Transceiver.
2. Determine safe route to site.
3. Determine number and location of avalanche sentries.
4. Determine boundary's of search site.
5. Determine further avalanche hazards.
6. Determine location and direction of escape routes for searchers.
7. Determine command post site.
8. Determine safe landing zone for helicopters.
9. Determine nearest roadhead.
10. Conduct proper search, as required.
11. Recover buried Marine(s).
12. Apply first aid, if required.
13. Medically Evacuate casualty, as required.

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REFERENCE(S):

1. Avalanche Handbook, U.S. Forest Service, 1972
2. Operations Handbook for Pieps, Ortovox, and Ramer Avalanche Transceivers
3. Snow Sense: A Guide to Evaluating Snow Avalanche Hazard, Fredston, Jill A. and Doug Fester, ed Edition 1988
4. FMFRP 7-23, Small Unit Leader's Guide to Cold Weather Operations
5. FMFRP 7-24, Commander's Guide to Cold Weather Operations

ADMINISTRATIVE INSTRUCTIONS:

1. All searches must be well rehearsed in order to expedite the recovery of buried individual(s).
2. Certified Winter Mountain Leaders or Scout Skiers must be on site for timely execution.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (2) Req  
By (Sgt)

TRAINING MATERIEL:

1. 120' Line
2. 550 Parachute Cord
3. Communication Equipment
4. Ice Axe
5. Lensatic Compass
6. Litter
7. Locking Carabiner(s)
8. Map(s) (Topographic)
9. Military Skis and Poles
10. Sling Rope(s)
11. Snowshoes

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MOS SS13, SCOUT SWIMMER

DUTY AREA 01 - BASIC SCOUT SWIMMER SKILLS

The following equipment list is standard issue for a scout swim-or, and is required to train each Task: Wet Suit, Underwater Demolitions Team (UDT) Vest with CO2 Cartridge, a Dive Knife, a Day/Night Flare, One Pair of Fins, One Set of Dive Booties, a Whistle, and a Chemical Light/Distress Light.

TASK: SS13.01.01 MAINTAIN SCOUT SWIMMER EQUIPMENT

CONDITION(S): Given standard issue scout swimmer equipment, i.e., wet suit, Underwater Demolitions Team vest with CO2 cartridge, dive knife, day/night flare, pair of fins, set of dive boots, whistle, and chemical/distress light.

STANDARD(S): By properly inspecting and identifying required maintenance.

PERFORMANCE STEPS:

1. Identify the purpose of individual scout swimmer equipment.
2. Inspect scout swimmer equipment for serviceability.
3. Don scout swimmer equipment to ensure proper fit.
4. Conduct first echelon maintenance on all equipment utilizing fresh water rinse and appropriate lubrication.

REFERENCE(S):

1. MCO 1510.35, Individual Training Standards for Occupational Field 03 Infantry
2. TC 31-25, Special Forces Waterborne Operations

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (PFC)

TRAINING MATERIEL:

1. \* Chemical Light (Chemlite)/Distress Light
  2. \* Dive Knife
  3. \* Pair of Dive Fins
  4. \* Set of Dive Boots
  5. \* Underwater Demolitions Team (UDT) Vest with CO2 Cartridge
  6. \* Wetsuit
  7. \* Whistle
-

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TASK: SS13.01.02 WATERPROOF EQUIPMENT

CONDITION(S): Given a T/O weapon, 782 gear, radio, mission pack, standard issue scout swimmer equipment, and waterproofing material.

STANDARD(S): So when submerged for a minimum of one hour, mission essential equipment remains functional without degradation of capability.

PERFORMANCE STEPS:

1. Identify the three degrees of waterproof.
2. Identify the four priorities of waterproofing.
3. Identify the equipment used for waterproofing.
4. Prepare scout swimmer equipment for waterproofing.
5. Waterproof class I scout swimmer equipment.
6. Waterproof class 11 scout swimmer equipment.
7. Waterproof class III scout swimmer equipment.
8. Waterproof class IV scout swimmer equipment.
9. Prepare a swimmer's bundle.

REFERENCE(S):

1. MCO 1510.35, Individual Training Standards for Occupational Field 03 Infantry
2. TC 31-25, Special Forces Waterborne Operations

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (PFC)

TRAINING MATERIEL:

1. \* Chemical Light (Chemlite)/Distress Light
2. \* Dive Knife
3. \* Individual 782 Gear
4. \* Pair of Dive Fins
5. \* Radio, Callsigns and Frequencies
6. \* Set of Dive Boots
7. \* T/O Weapon (M16A2, M-9, H249, etc.)
8. \* Tactical Radio(s) with or without Encryption

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9. Tactical Radio, SL-3 complete
10. Underwater Demolitions Team (UDT) Vest with CO2 Cartridge
11. Wetsuit
12. Whistle

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TASK: SS13.01.03 PERFORM INSERTION/EXTRACTION TECHNIQUES

CONDITION(S): Given a scout swimmer mission, standard scout swimmer equipment, and a mission objective.

STANDARD(S): Which do not compromise individual swimmers or scout swimmer team and guarantees successfully completion of the mission.

PERFORMANCE STEPS:

1. Don swim fins.
2. Identify the kick used in finning.
3. Demonstrate the kick used in finning.
4. Identify the three swim strokes used in finning.
5. Demonstrate the three swim strokes used in finning.
6. Demonstrate the finning technique for benign waters.
7. Demonstrate the water entry technique from a Rigid Raiding Craft (RRC).
8. Remove fins while remaining concealed in the water.
9. Conduct a beach water exit.
10. Conduct a water exit onto a man-made structure.
11. Extract through a surf zone by finning.

REFERENCE(S):

1. MCO 1510.35, Individual Training Standards for Occupational Field 03 Infantry
2. TC 31-25, Special Forces Waterborne Operations

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req  
By (PFC)

TRAINING MATERIEL:

1. \* Chemical Light (Chemlite)/Distress Light
2. \* Dive Knife



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3. \* Pair of Dive Fins
  4. \* Set of Dive Boots
  5. \* T/O Weapon (M16A2, M-9, M249, etc.)
  6. \* Underwater Demolitions Team (UDT) Vest with CO2 Cartridge
  7. \* Wetsuit
  8. \* Whistle
- 

TASK: SS13.01.04 FUNCTION AS A MEMBER OF A COMBAT RUBBER RECONNAISSANCE CRAFT (CRRC) BOAT TEAM

CONDITION(S): Given a mission, a constructive or actual amphibious platform to launch from and recover to, an SL-3 complete CRRC and a coxswain.

STANDARD(S): Executing assigned duties or issued orders which facilitate mission accomplishment, per the reference.

PERFORMANCE STEPS:

1. Identify the duties of each boat team member.
2. Demonstrate the riding position on a CRRC for conducting passage of the surf zone.
3. Demonstrate CRRC broaching procedures for a CRRC.
4. Demonstrate CRRC immediate action (IA) procedures for a man-overboard.

REFERENCE(S):

1. MARFORLANT/PAC INST, P3000.15, Standard Procedures for Raiding Craft

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (PFC)

TRAINING MATERIEL:

1. \* Chemical Light (Chemlite)/Distress Light
2. \* Combat Rubber Reconnaissance Craft(s) with Engine, SL-3 complete
3. \* Dive Knife
4. \* Pair of Dive Fins
5. \* Set of Dive Boots
6. \* Tactical Radio, SL-3 complete
7. \* Underwater Demolitions Team (UDT) Vest with CO2 Cartridge

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8. \* Wetsuit
9. \* Whistle

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DUTY AREA 02 - SCOUT SWIMMER OPERATIONS

TASK: SS13.02.01 LEAD A SCOUT SWIMMER TEAM

CONDITION(S): Assigned as the leader of a scout swimmer team, given a tactical mission and issued standard scout swimmer equipment.

STANDARD(S): Per higher headquarters issued guidance and intent.

PERFORMANCE STEPS:

1. Identify the mission of the scout swimmer team.
2. Designate the mission tasks of each team member.
3. Designate the offshore distance for scout swimmer insertion.
4. Conduct a clandestine swim to the beach landing site.
5. Conduct a reconnaissance of the surf zone.
6. Observe the beach landing site for enemy presence.
7. Maintain security while removing or donning fins.
8. Conduct a reconnaissance of the beach landing site.
9. Establish security at the beach landing site.
10. Neutralize a lone sentry.
11. Perform immediate actions for enemy contact.
12. Mark the beach landing site for a small boat insertion.
13. Execute a communication plan between the scout swimmers and the raid force.
14. Execute an internal communication plan between scout swimmer teams.
15. Identify a cache site for CRRCs.
16. Direct the staging of CRRCs at the beach landing site.
17. Provide security for the raid force on extract from the beach landing site.

REFERENCE(S):

1. FMFM 0-7, Close Combat
2. FMFM 7-45/FM 31-25, Special Forces Waterborne Operations
3. MCO 1510.90, Individual Training Standards (ITS) System for Marine Battle Skills Training (MBST), Volume 2-Corporal through Gunnery Sergeant

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4. MCO 1510.89 W/CH 1, Individual Training Standards (ITS) System for Marine Battle Skills Training (MBST), Volume I-entry Level

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req  
By (PFC)

TRAINING MATERIEL:

1. \* Chemical Light (Chemlite)/Distress Light
  2. \* Combat Rubber Reconnaissance Craft(s) with Engine, SL-3 complete
  3. \* Communication Equipment
  4. \* Dive Knife
  5. \* Individual 782 Gear
  6. \* Lensatic Compass
  7. \* Pair of Dive Fins
  8. \* Set of Dive Boots
  9. \* Signaling Device
  10. \* T/O Weapon (M16A2, M-9, M249, etc.)
  11. \* Tactical Radio, SL-3 complete
  12. \* Underwater Demolitions Team (UDT) Vest with CO2 Cartridge
  13. \* Wetsuit
  14. \* Whistle
- 

TASK: SS13.02.02 CONDUCT BEACH SURVEY

CONDITION(S): Assigned to a scout swimmer team, given tactical mission and standard issued scout swimmer equipment.

STANDARD(S): Per the mission requirements and the references.

PERFORMANCE STEPS:

1. Confirm the location of the proposed beach landing site.
2. Identify the criteria for determining the suitability of a beach landing site.
3. Identify the actions taken by scout swimmers in the event of an unsuitable beach landing site.
4. Conduct a clandestine insertion to the beach landing site.
5. Conduct beach survey of the proposed beach landing site.

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6. Conduct a clandestine extraction in the event of an unsuitable beach landing site.

REFERENCE(S):

1. COMNAVSURFPAC/LANT INST 3840.1B, Joint Surf Manual
2. MCO 1510.90, Individual Training Standards (ITS) System for Marine Battle Skills Training (MBST), Volume 2-Corporal through Gunnery Sergeant
3. TC 31-25, Special Forces Waterborne Operations

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req  
By (PFC)

TRAINING MATERIEL:

1. \* Chemical Light (Chemlite)/Distress Light
2. \* Communication Equipment
3. \* Dive Knife
4. \* Pair of Dive Fins
5. \* Set of Dive Boots
6. \* T/O Weapon (M16A2, M-9, M249, etc.)
7. \* Tactical Radio, SL-3 complete
8. \* Underwater Demolitions Team (UDT) Vest with CO2 Cartridge
9. \* Wetsuit
10. \* Whistle

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TASK: SS13.02.03 CONDUCT SURF OBSERVATION

CONDITION(S): Given a tactical mission, a landing beach, surf observation (SUROB) report format, watch, compass, tactical light source, writing instrument, communications equipment, and standard scout swimmer equipment.

STANDARD(S): Per the communications plan and the references.

PERFORMANCE STEPS:

1. Identify the equipment required for a surf observation.
2. Identify the three methods for counting breakers.
3. Determine the highest one-third of all breakers in a ten minute period.
4. Determine the highest breaker observed.

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5. Determine the average period between breakers.
6. Determine the acute angle, in degrees, formed between the breaker lines and the shoreline expressed to the nearest five degrees.
7. Record and calculate the gathered data.
8. Report the results of the surf observation to the raid force.

REFERENCE(S):

1. COMNAVSURFPAC/LANT INST 3840.1B, Joint Surf Manual
2. FMFM 7-45/FM 31-25, Special Forces Waterborne operations

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req  
By (PFC)

TRAINING MATERIEL:

1. \* .5 mm Mechanical Pencil
2. \* Chemical Light (Chemlite)/Distress Light
3. \* Communication Equipment
4. \* Dive Knife
5. \* Individual 782 Gear
6. \* Pair of Dive Fins
7. \* Set of Dive Boots
8. \* Surf Observation and Report Format
9. \* T/O Weapon (M16A2, M-9, M249, etc.)
10. \* Tactical Radio, SL-3 complete
11. \* Underwater Demolitions Team (OUT) Vest with CO2 Cartridge
12. Wetsuit
13. \* Whistle

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TASK: SS13.02.04 PLAN A SCOUT SWIMMER MISSION

CONDITION(S): Given a tactical mission, proper nautical charts and topographical maps, plotting equipment, compass, and standard scout swimmer equipment.

STANDARD(S): That accomplishes the assigned tasks, per the references.

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PERFORMANCE STEPS:

1. Conduct a mission analysis:
  - a. Identify assigned tasks.
  - b. Identify implied tasks.
2. Conduct a chart and map reconnaissance of the beach landing site.
3. Coordinate with raid force planners.
4. Issue mission warning order to scout swimmer team.
5. Write the Scout Swimmer Annex to the operations Order.
6. Issue operation order to scout swimmer team.
7. Brief the Raid Force Commander on scout swimmer team's scheme of maneuver.

REFERENCE(S):

1. American Practical Navigator, Volumes I and II
2. Dutton's Navigation and Piloting, 14th Edition
3. Nautical Chart Abbreviations and Symbols
4. FMFM 7-45/FM 31-25, Special Forces Waterborne Operations
5. SH 21-76, Ranger Handbook

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req  
By (PFC)

TRAINING MATERIEL:

1. .5 mm Mechanical Pencil
2. Chart No. 1, Nautical Chart Symbols, Abbreviations, and Terms
3. \* Chemical Light (Chemlite)/Distress Light
4. \* Lensatic Compass
5. \* Nautical Charts
6. \* Protractor
7. Surf Observation and Report Format

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